

99 ——— B

FIG. 1

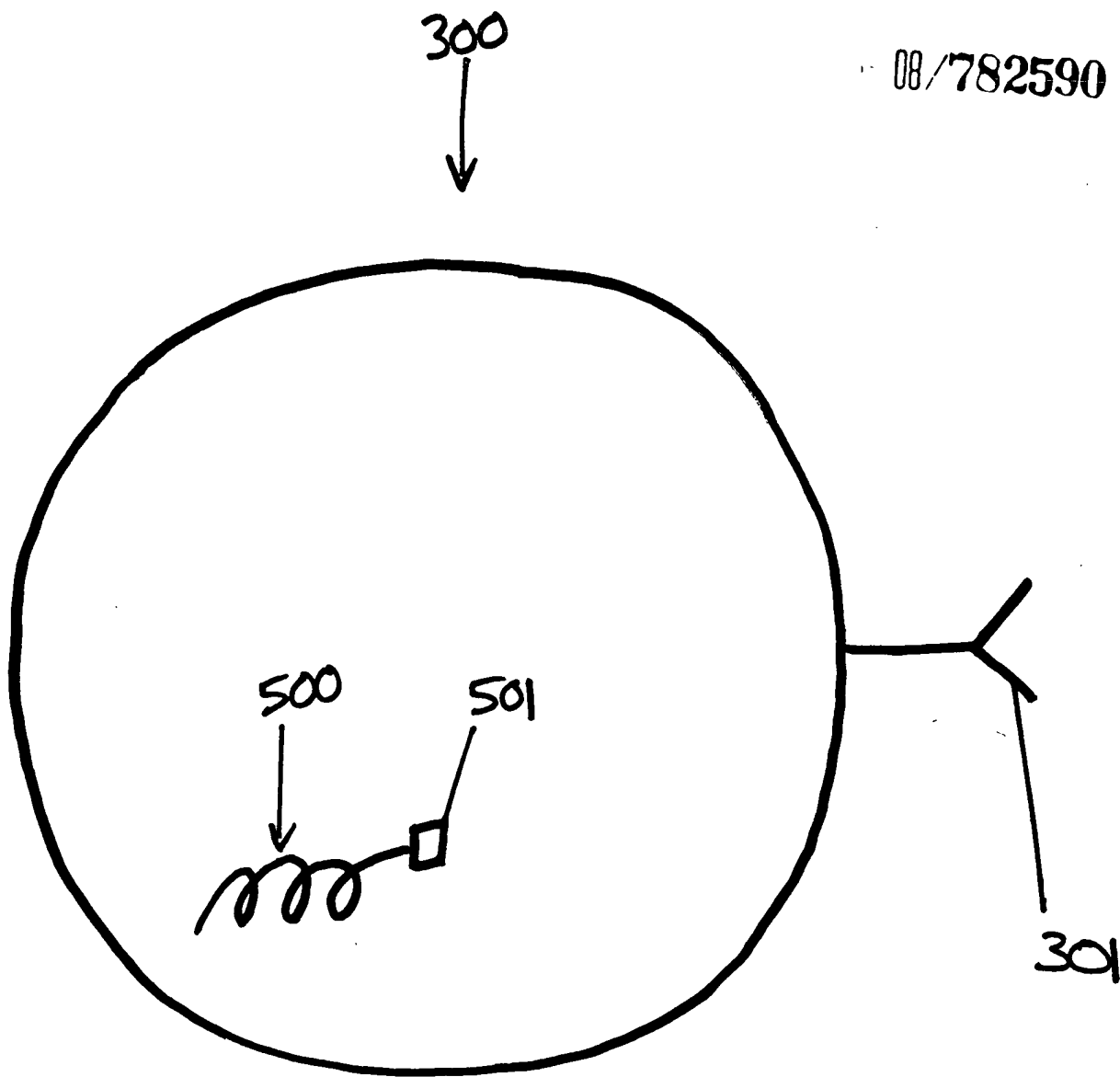


FIG. 2

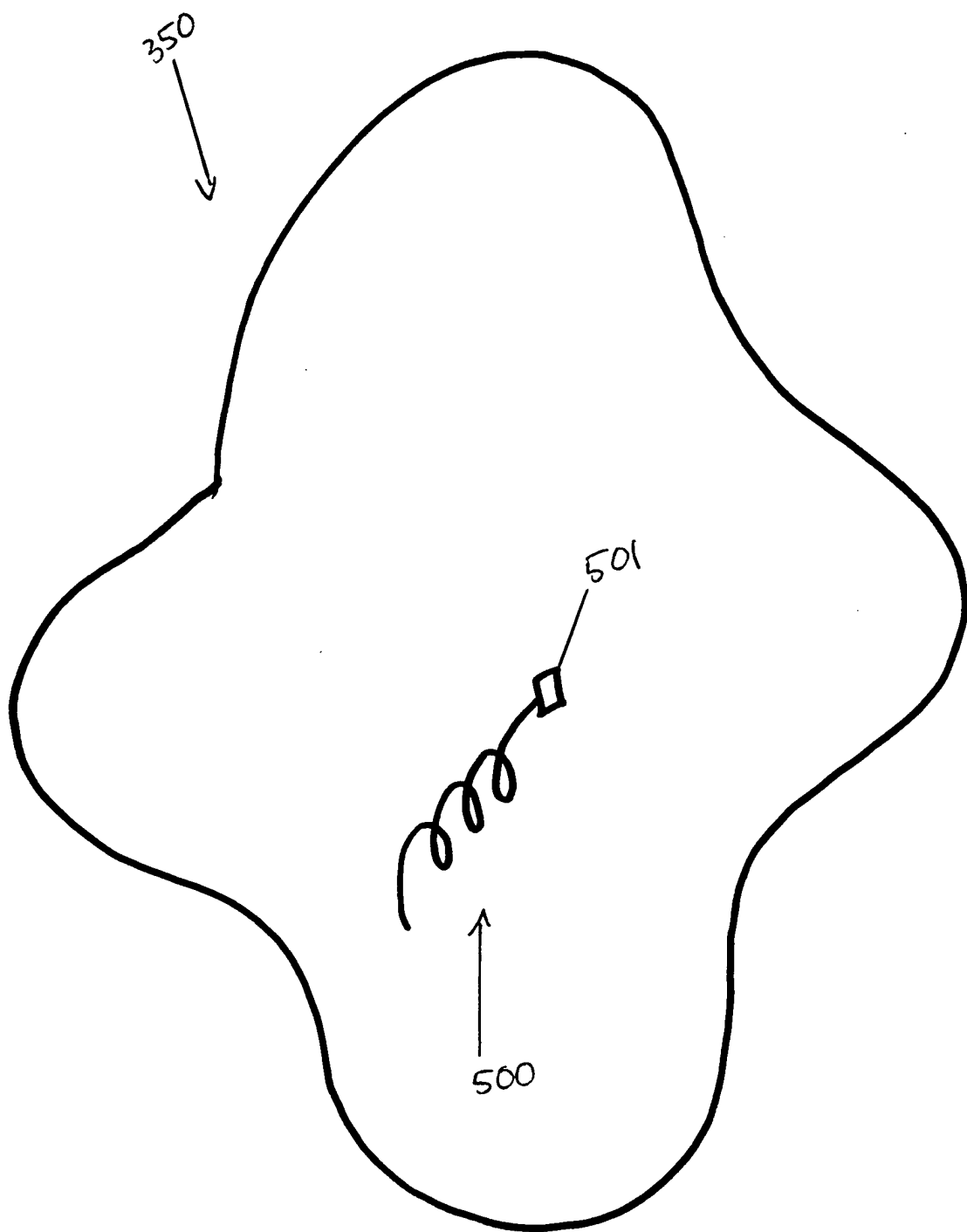


FIG 3

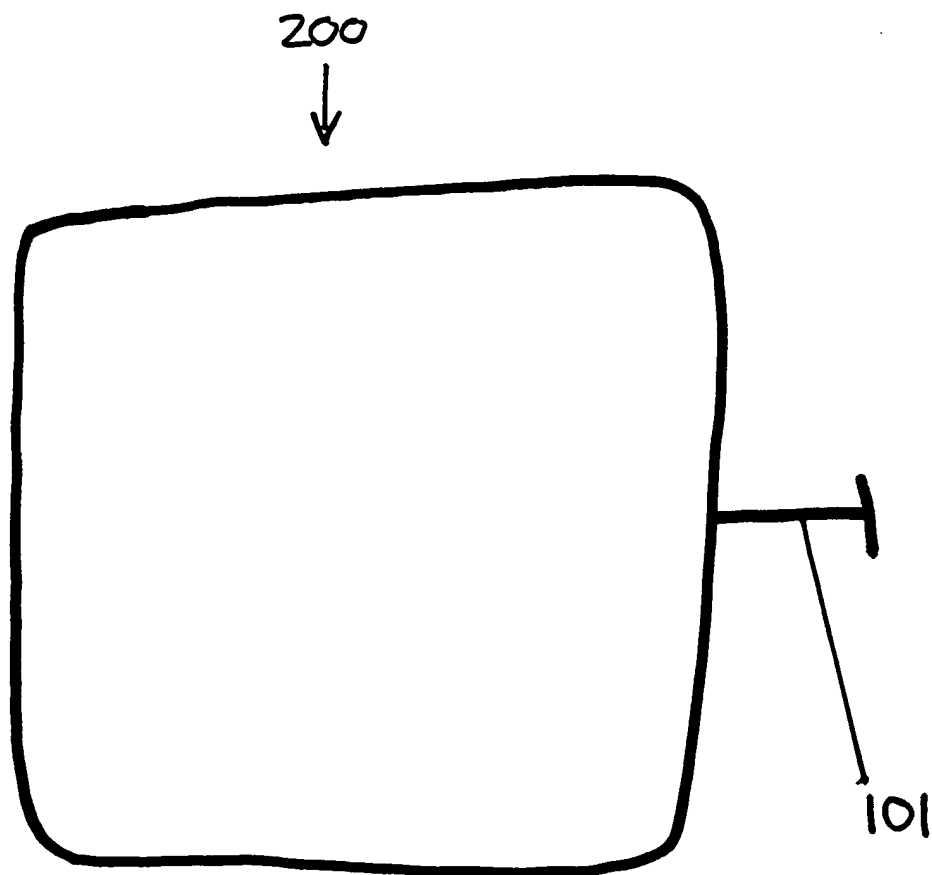


FIG. 4

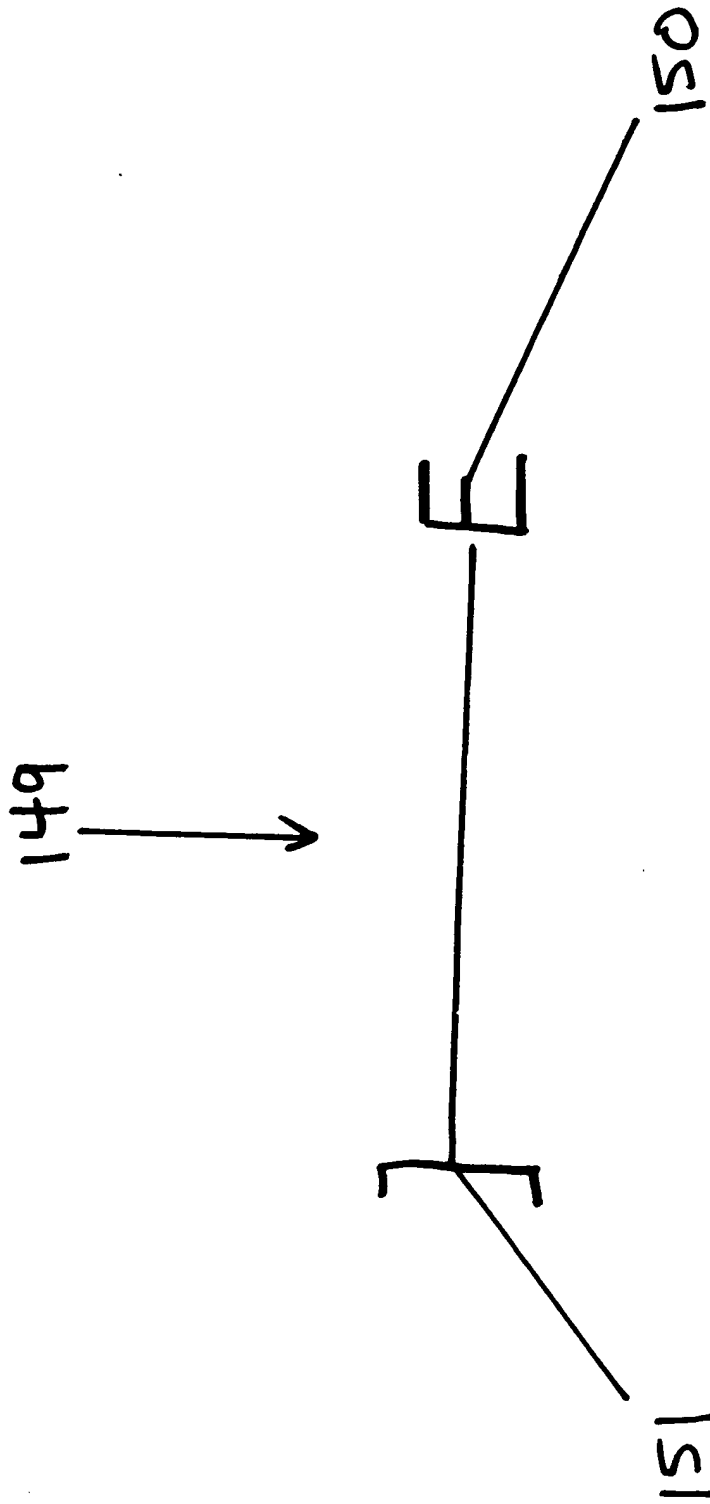


FIG. 5

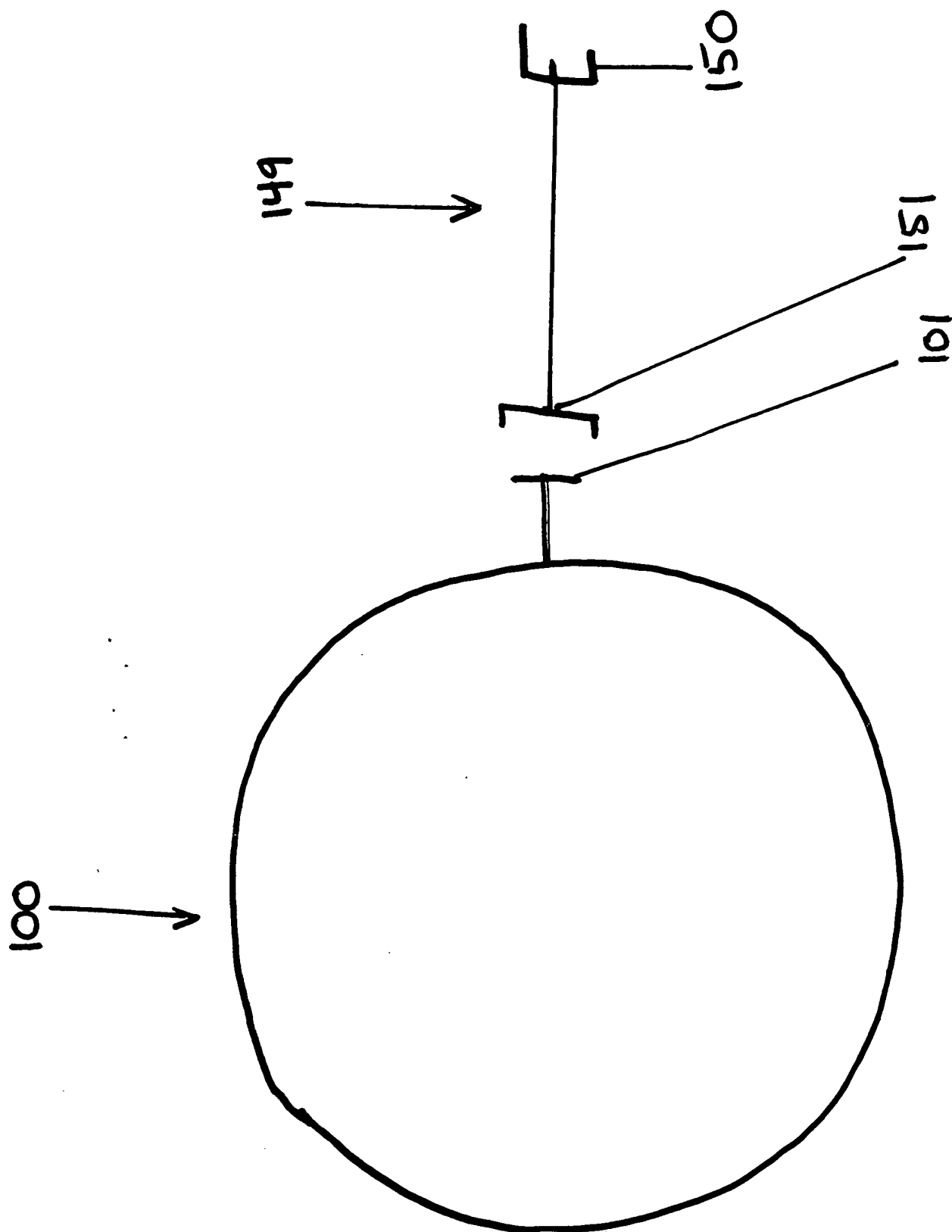


FIG. 6

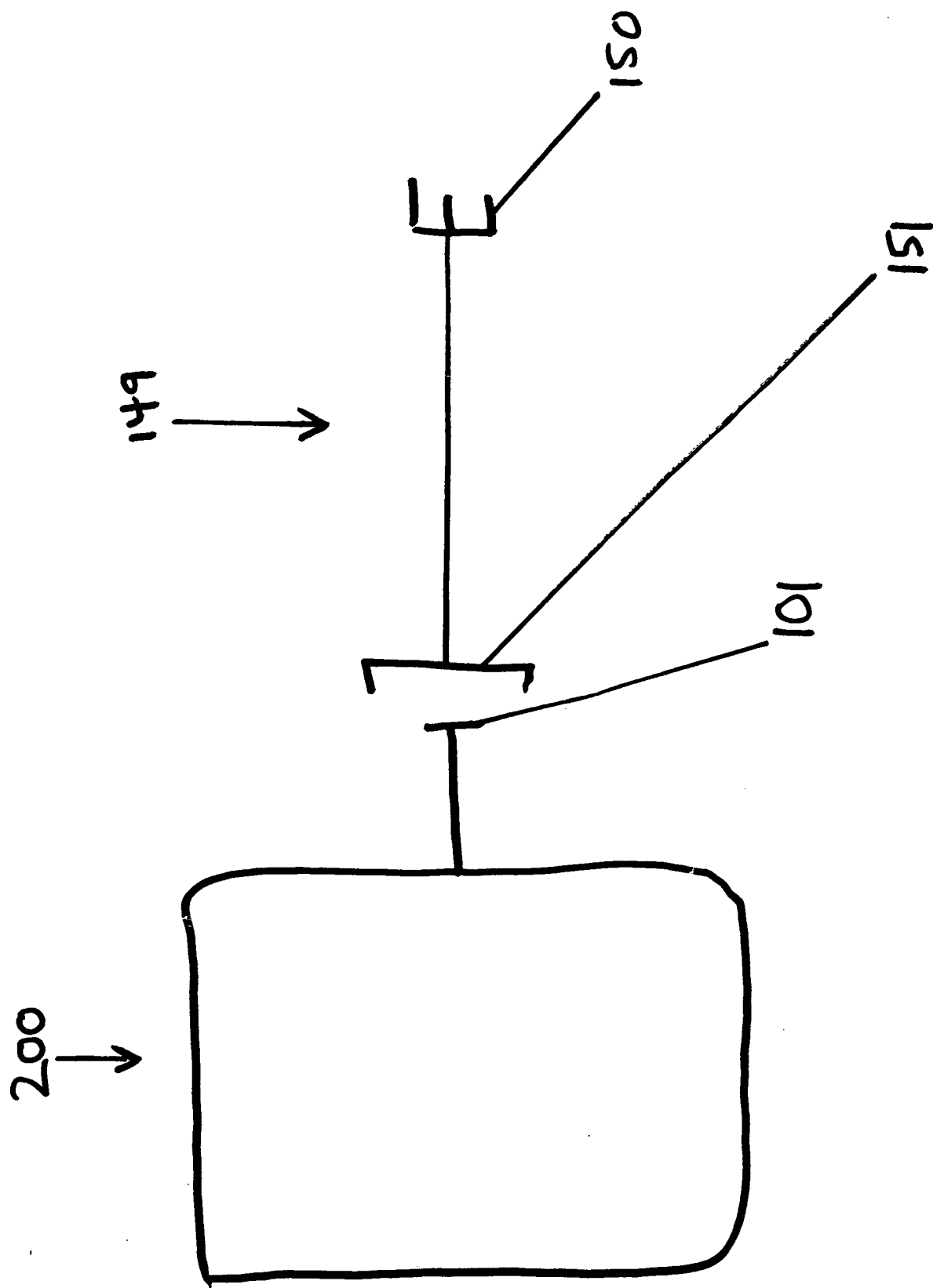


FIG. 7

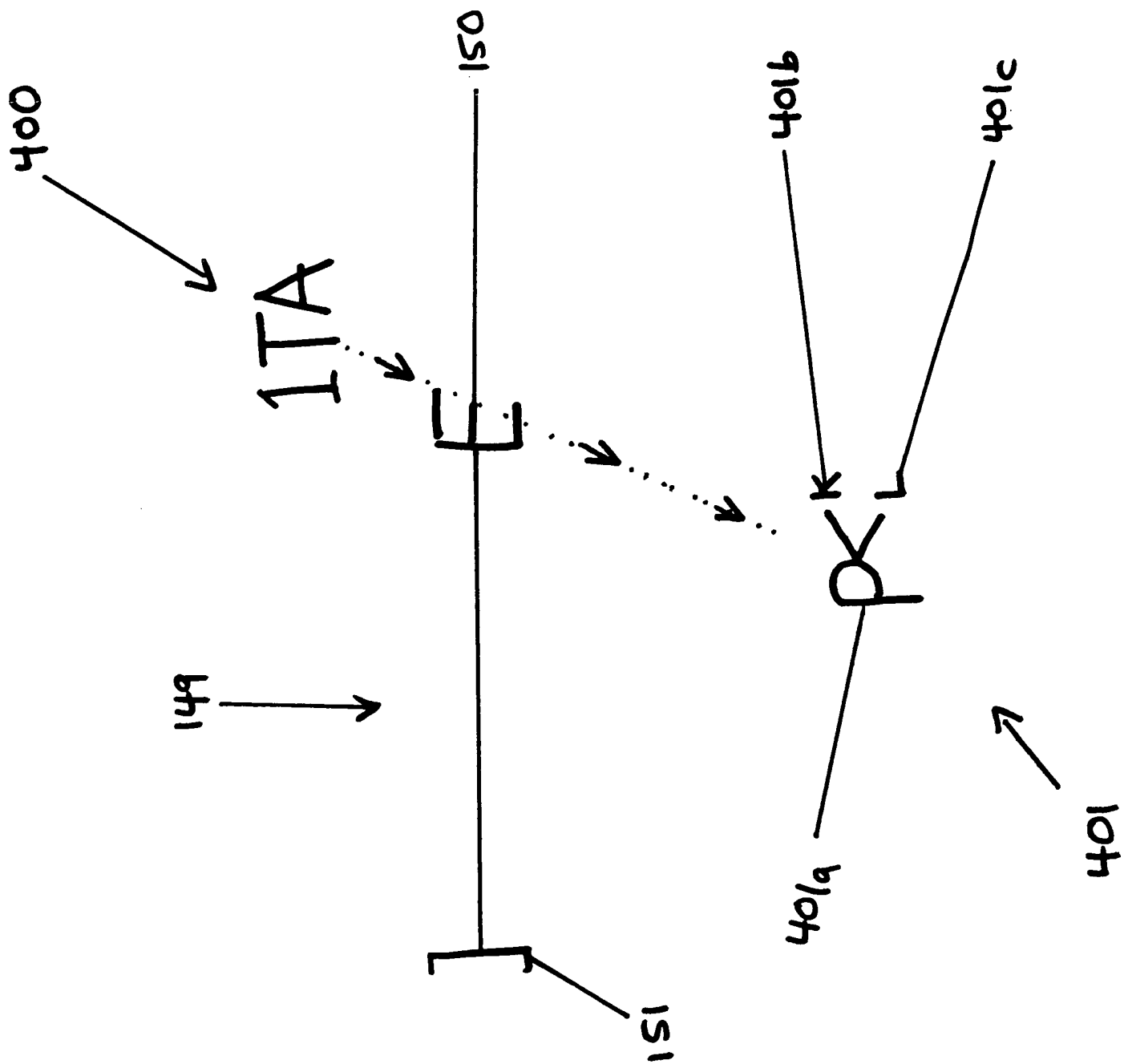


FIG. 8

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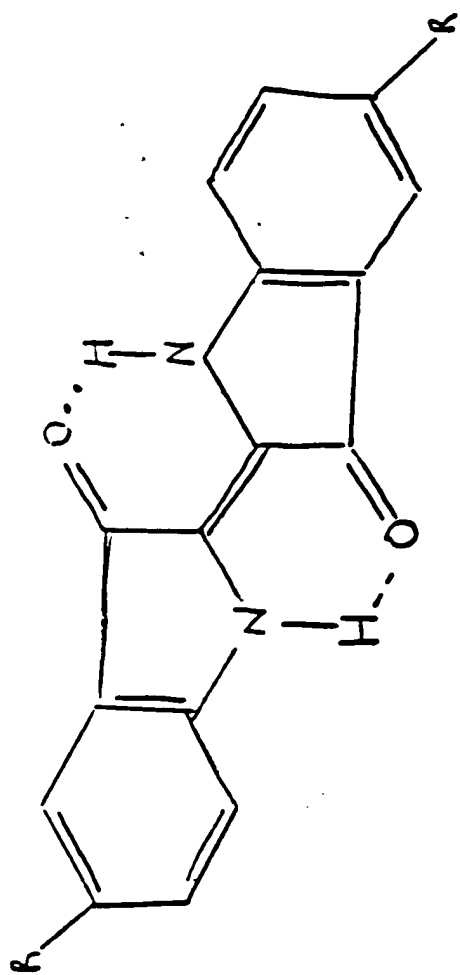


FIG. 9

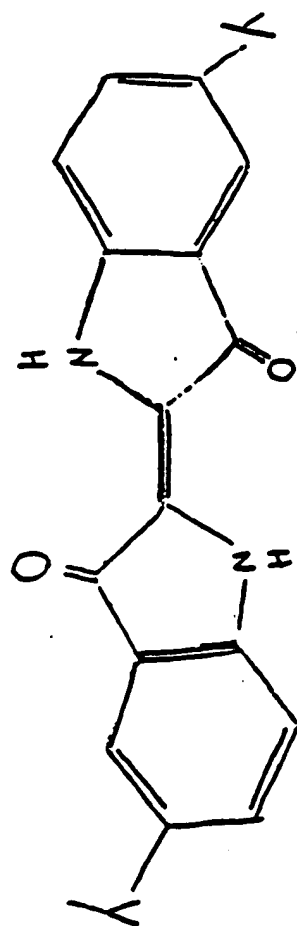


FIG. 10

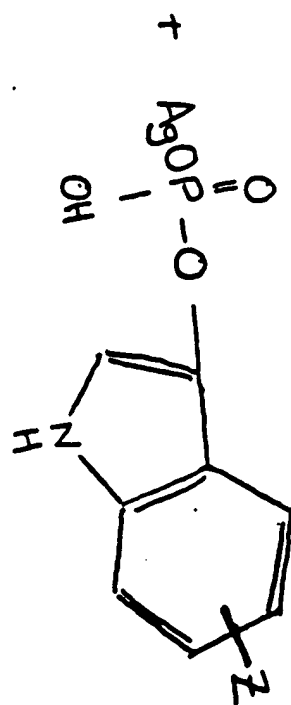
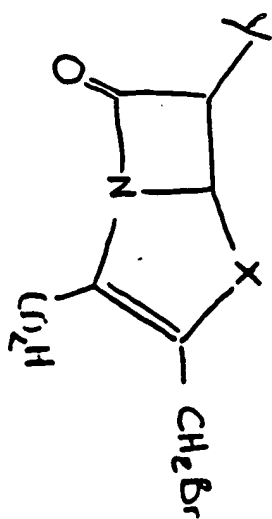
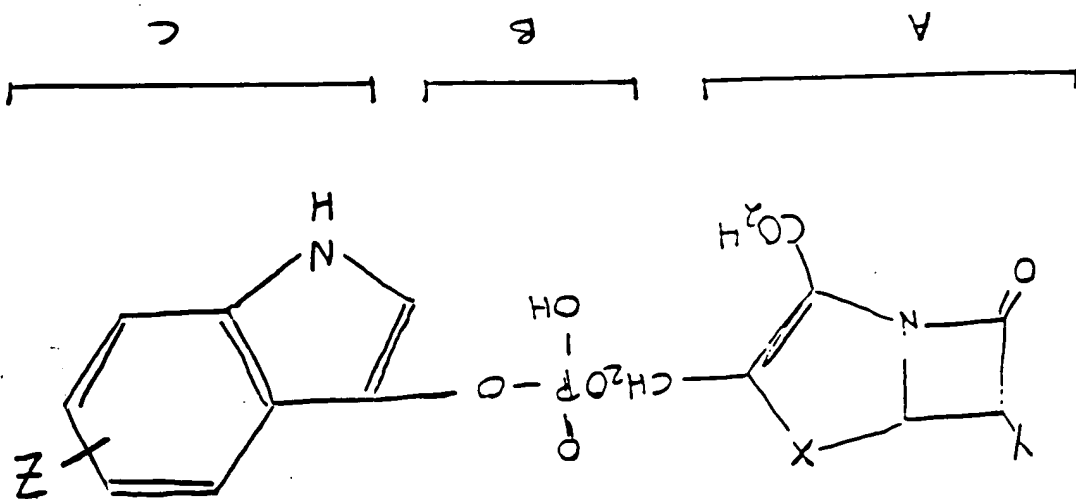


FIG. 11

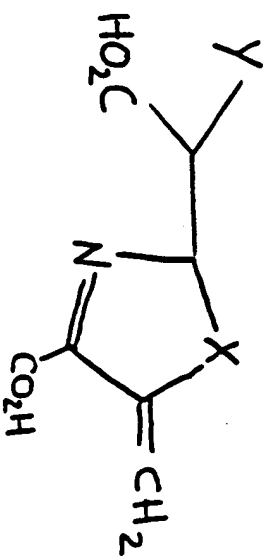
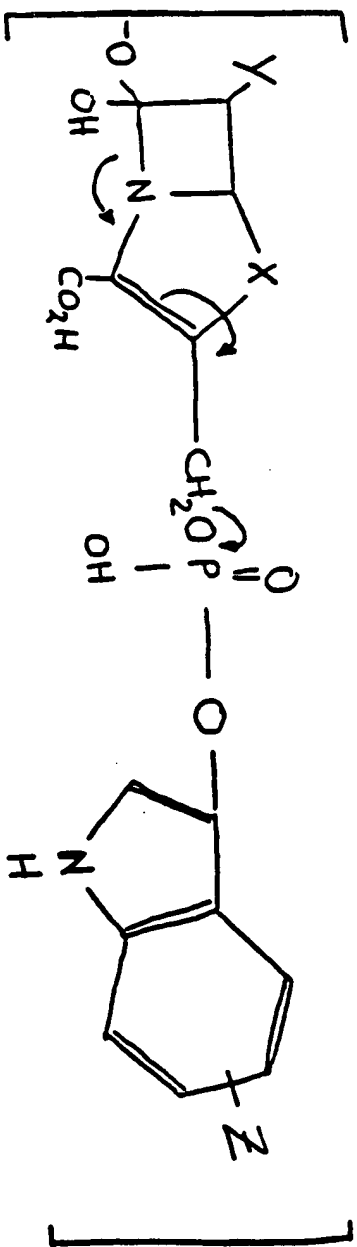
A-B-C + AgBr↓

FIG. 12

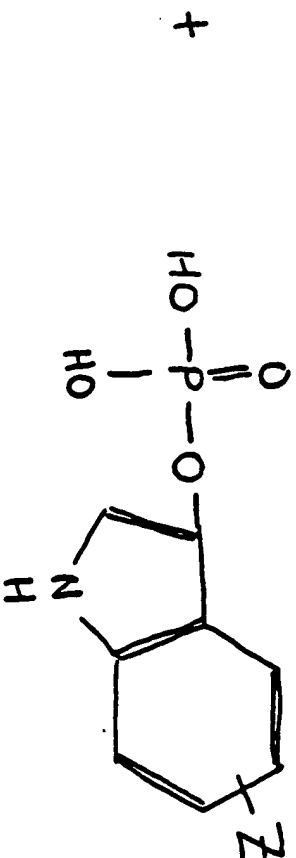


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ABC  $\beta$ -lactamase



resulting from the action of  $\beta$ -lactamase opening of the  $\beta$ -lactam and elimination



Indoxyl Phosphate

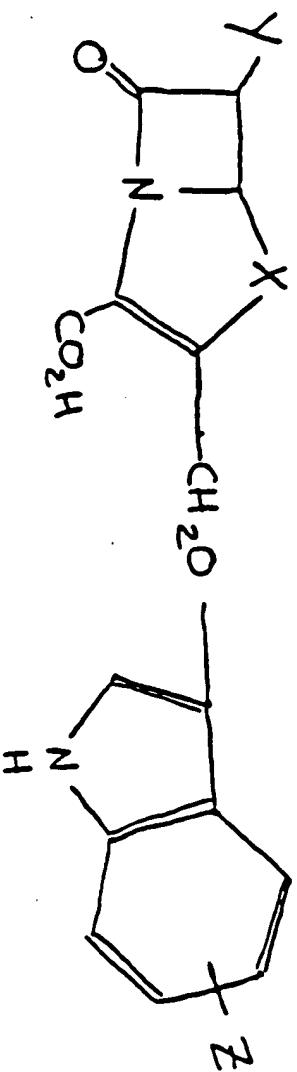
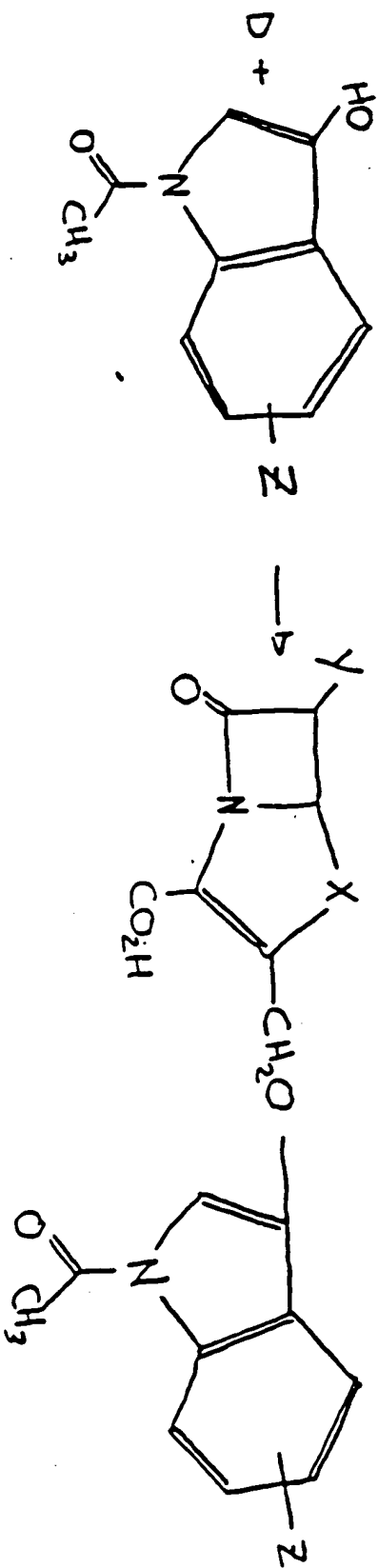
phosphatase

Indoxyl

oxidation and dimerization

precipitate substituted indigo

FIG. 13



Beta lactamase

+

Indoxyl

oxidation and  
dimerization

precipitate substituted indigo

FIG. 14

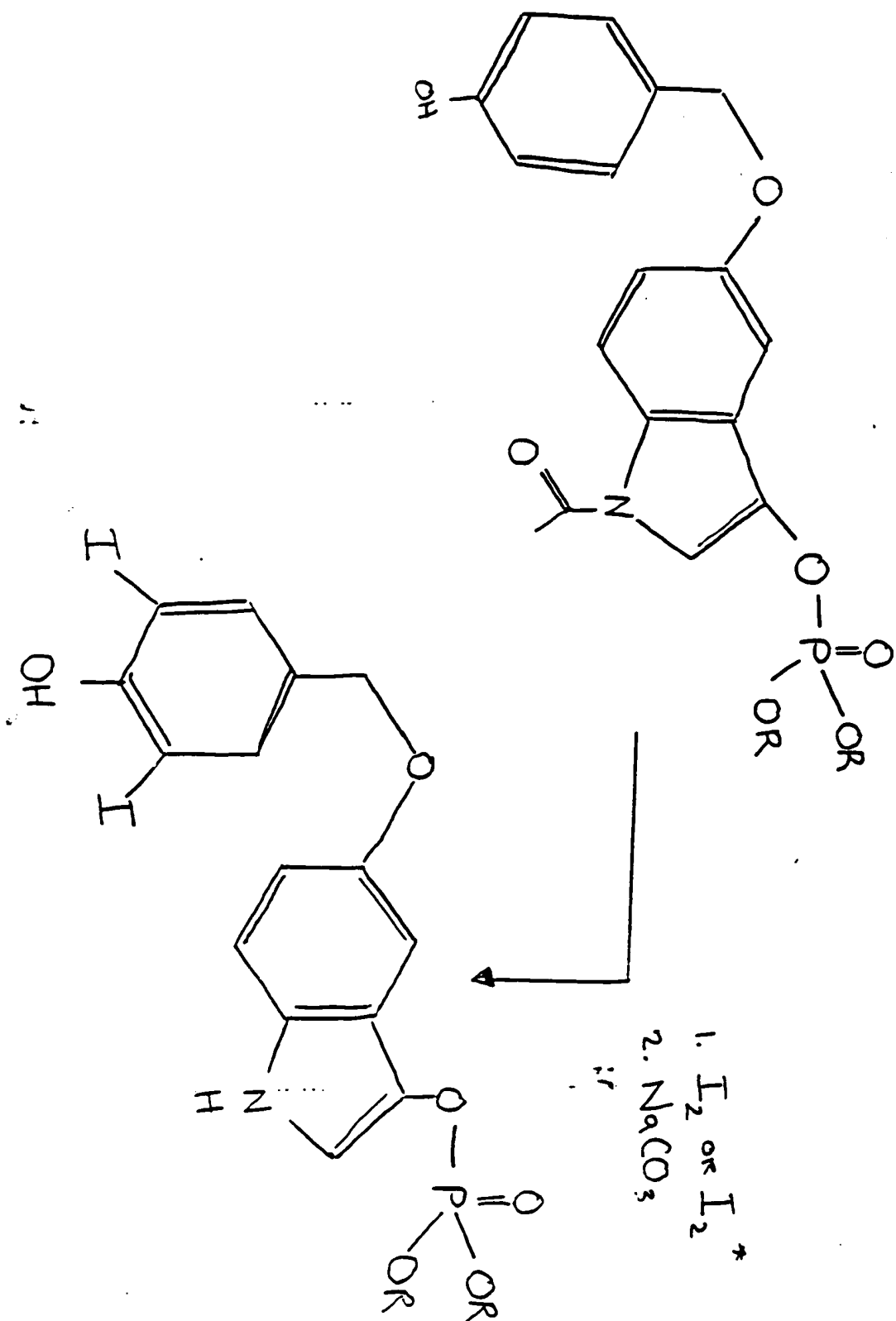
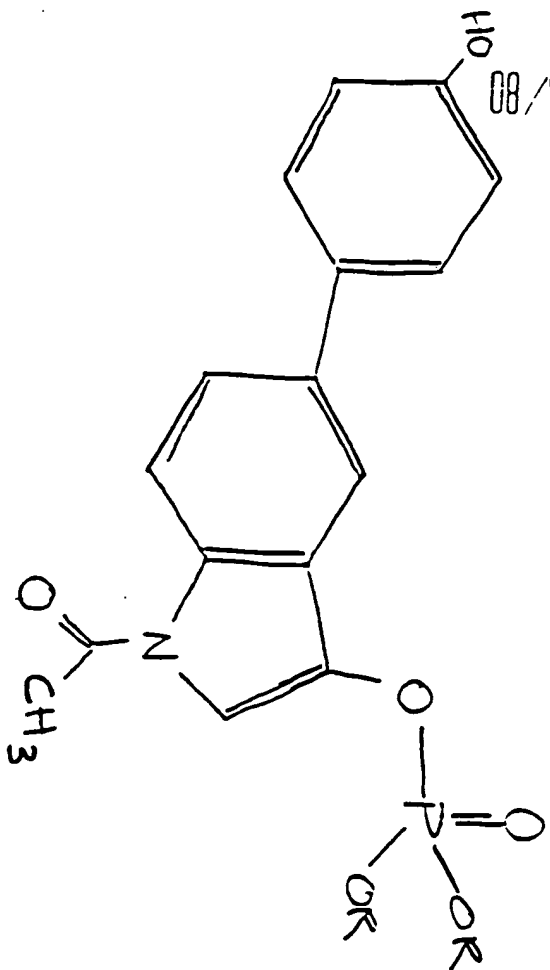


FIG. 15



1.  $I_2$  or  $I_2^*$   
2.  $NaHCO_3$

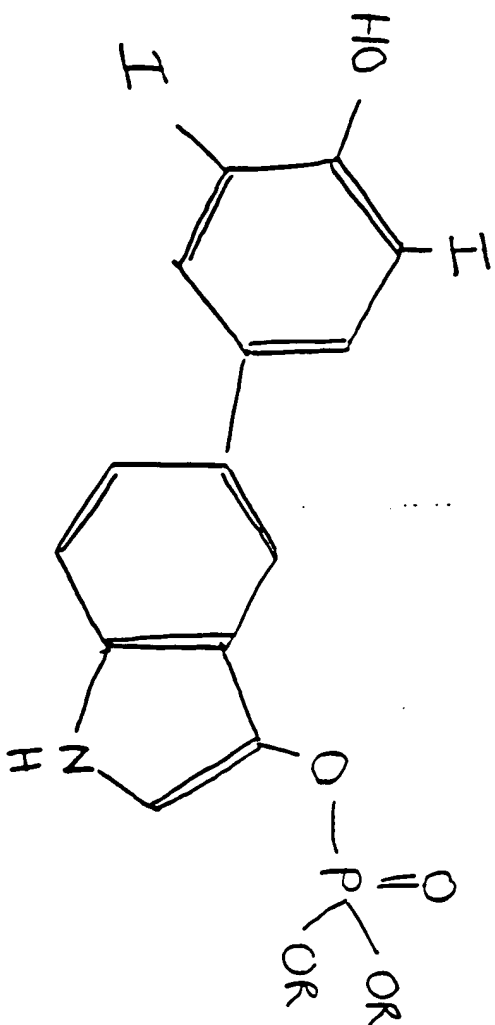


FIG. 16

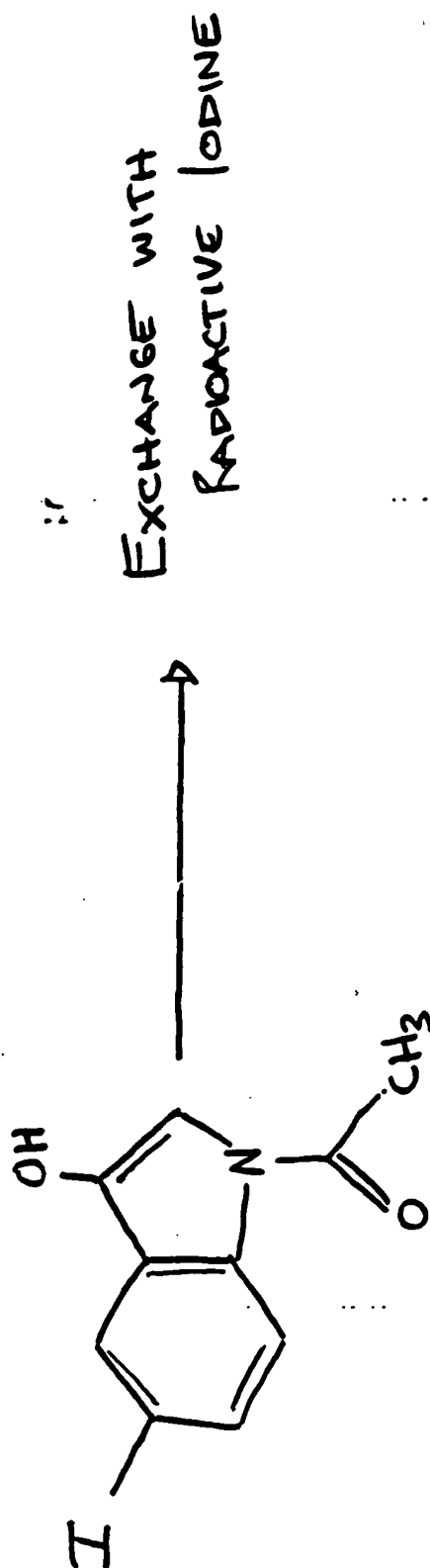
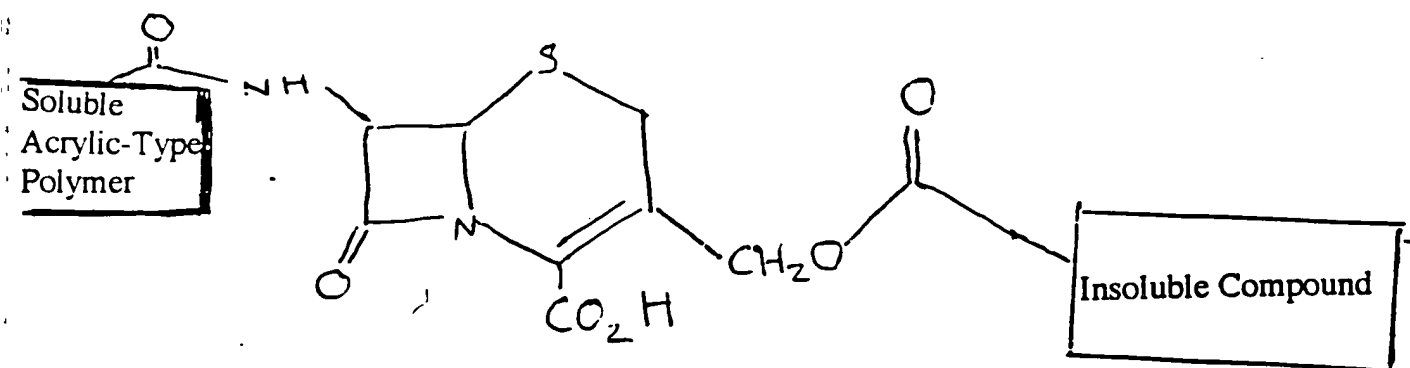
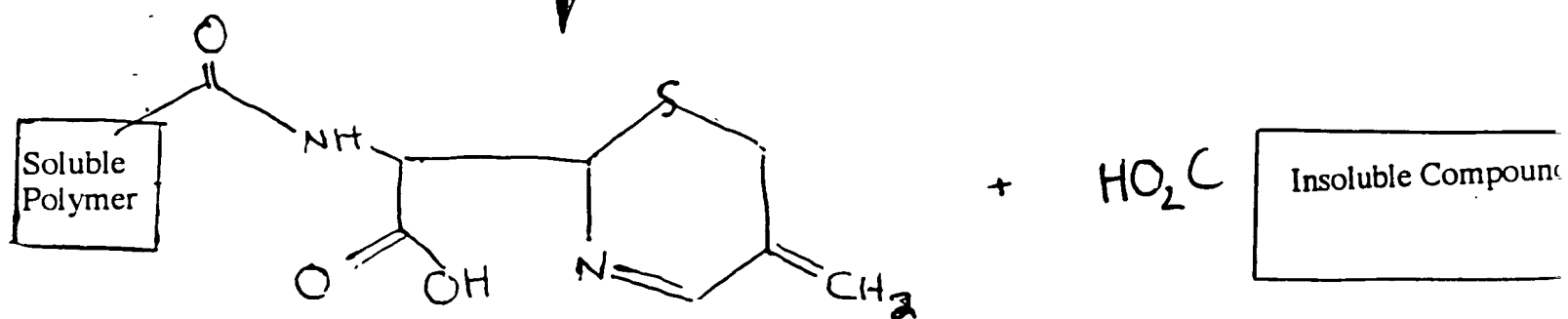


FIG. 17



7-aminocephalosporanic acid

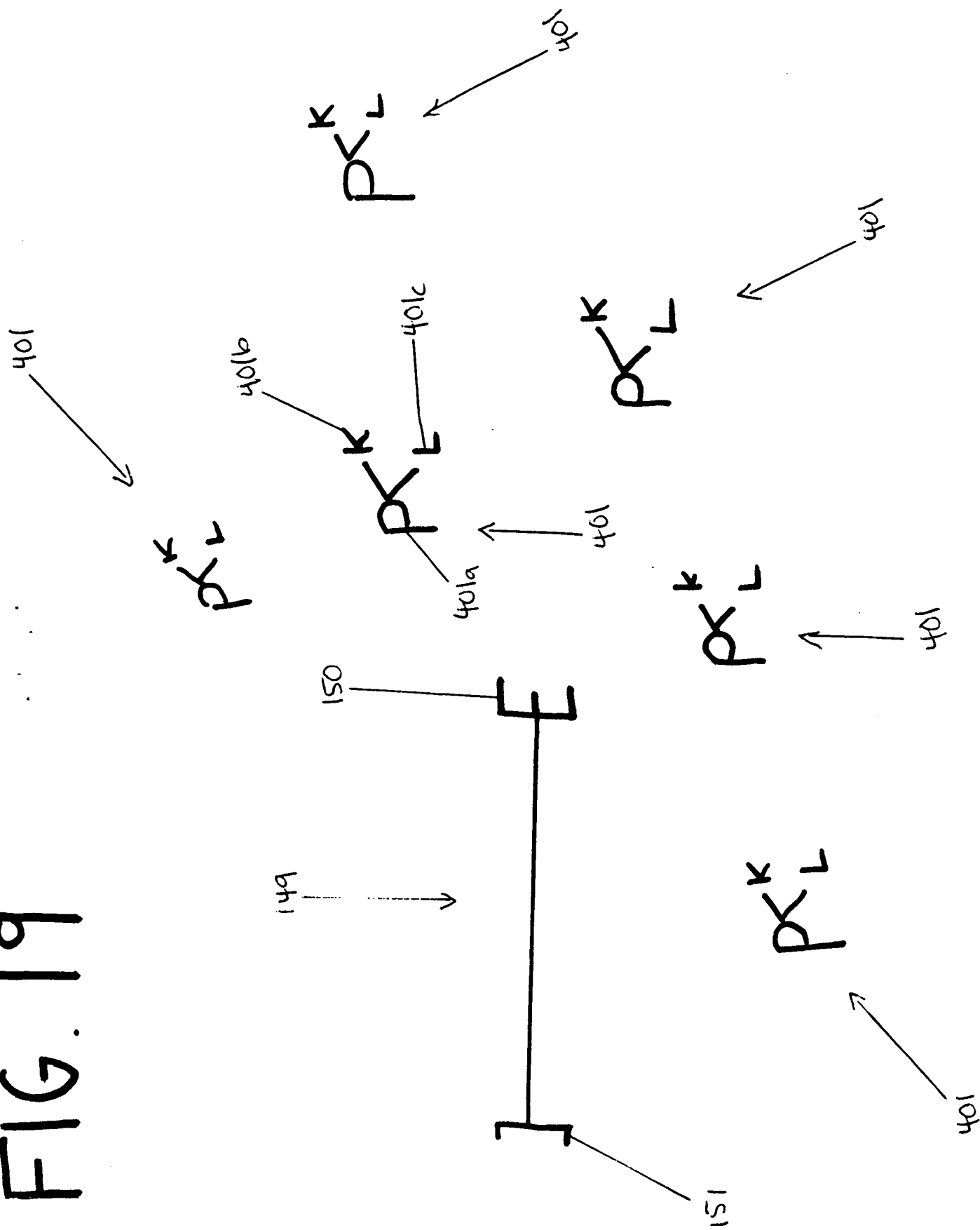
Beta Lactamase



As shown the cephalosporin residue stays attached to the soluble polymer

FIG. 18

FIG. 19



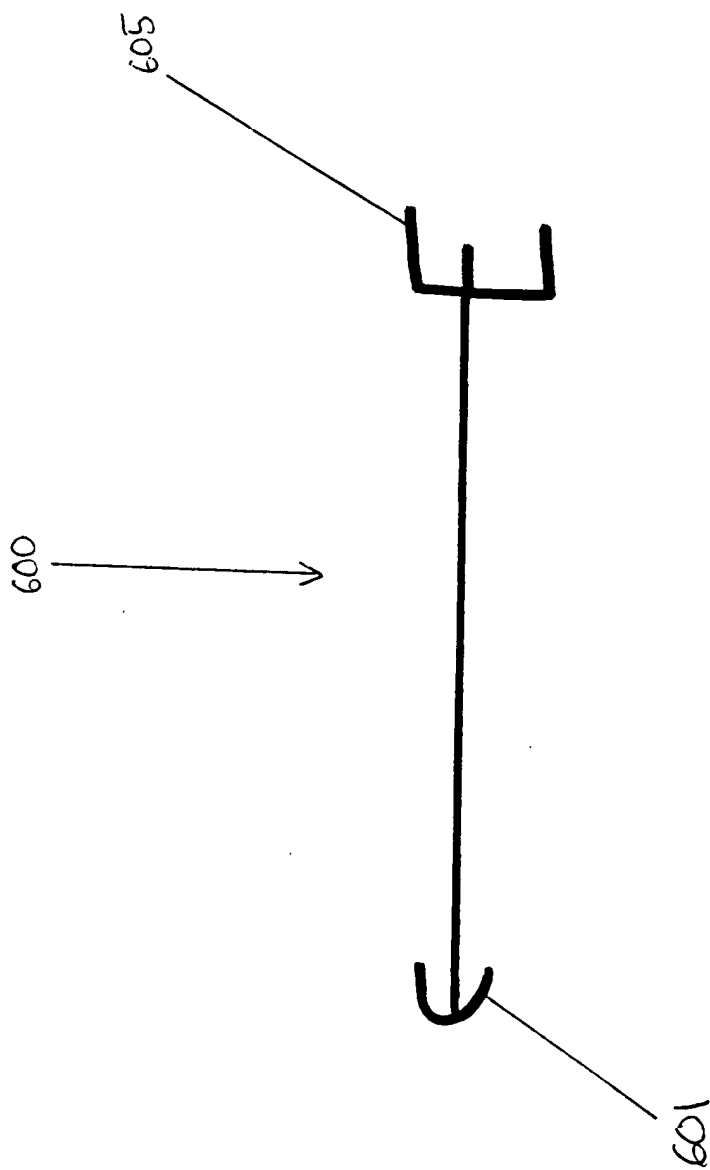


FIG. 20

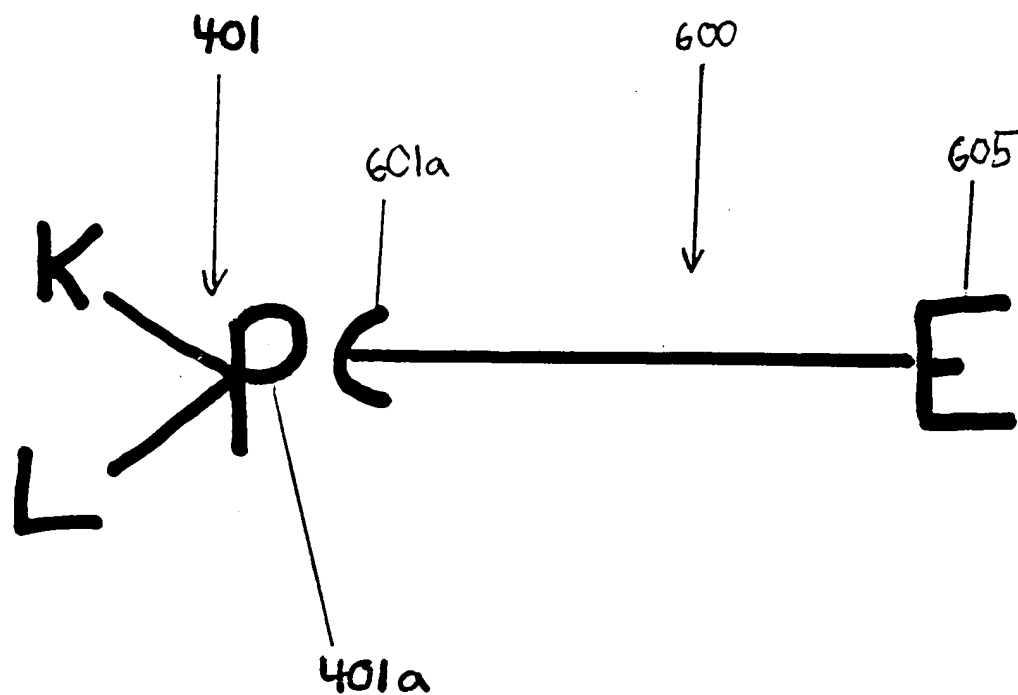


FIG. 21

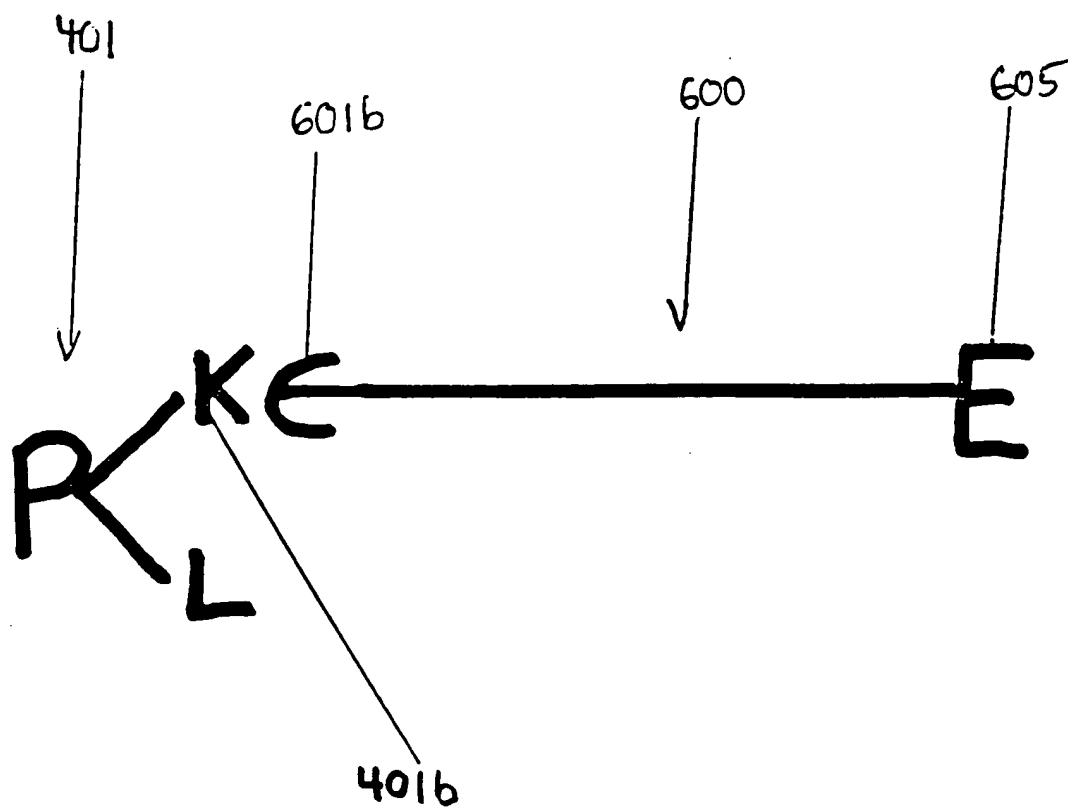


FIG. 22

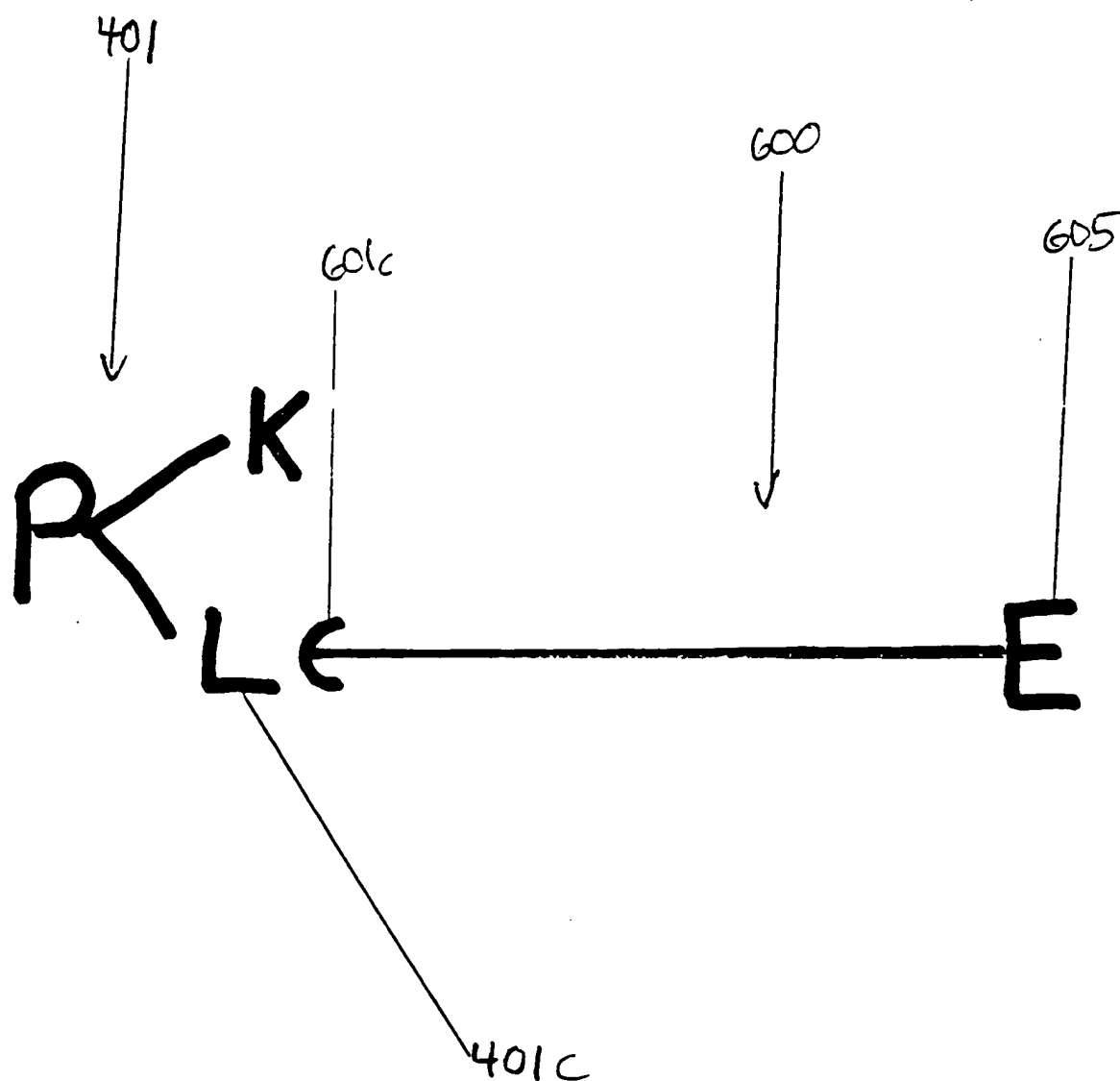


FIG. 23

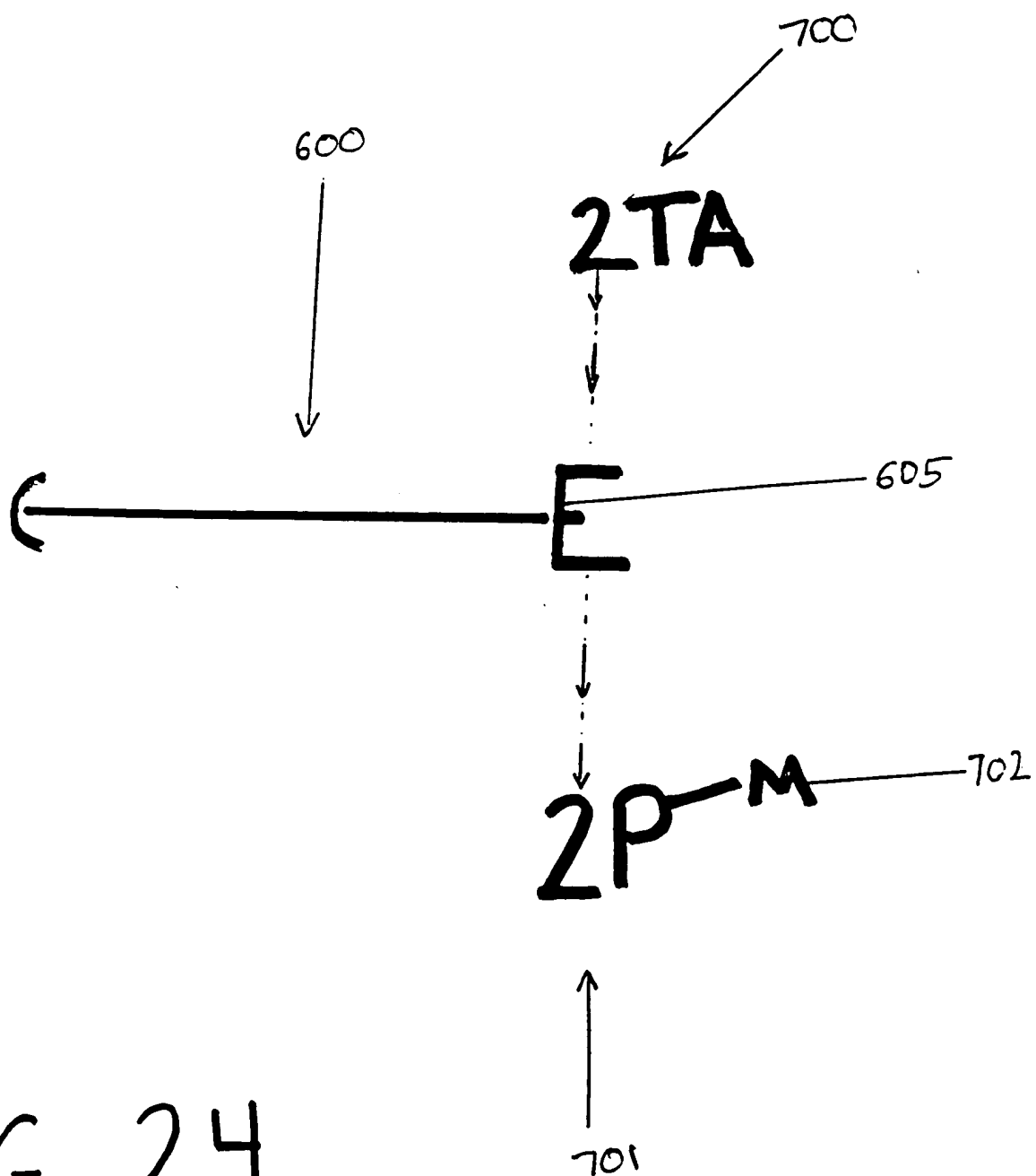


FIG. 24

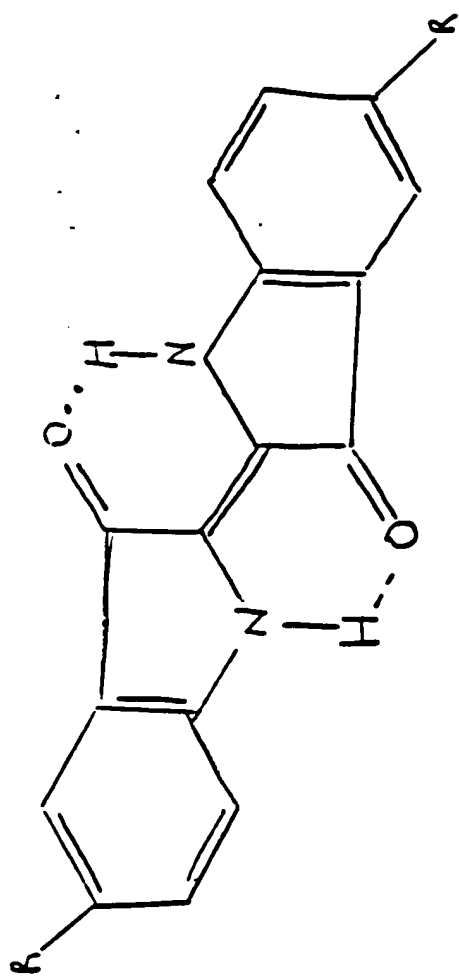


FIG. 25

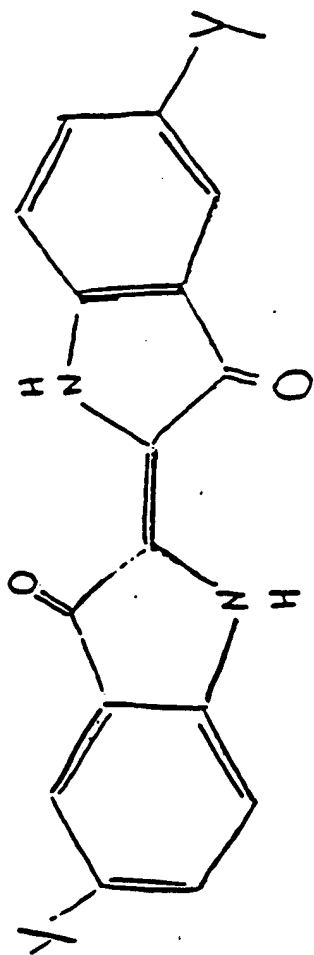


FIG. 26

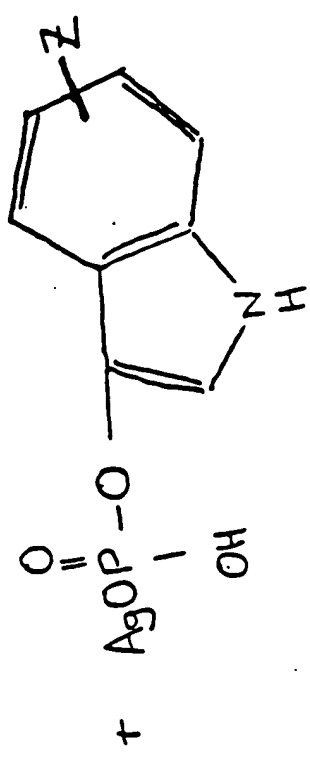
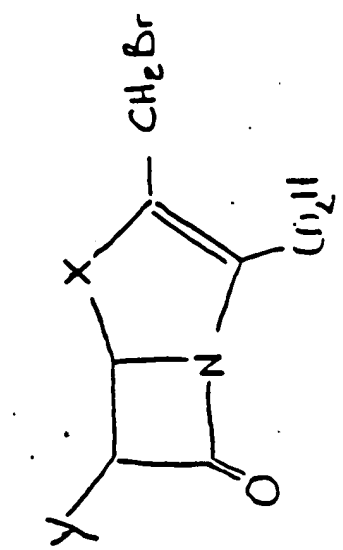


FIG. 27



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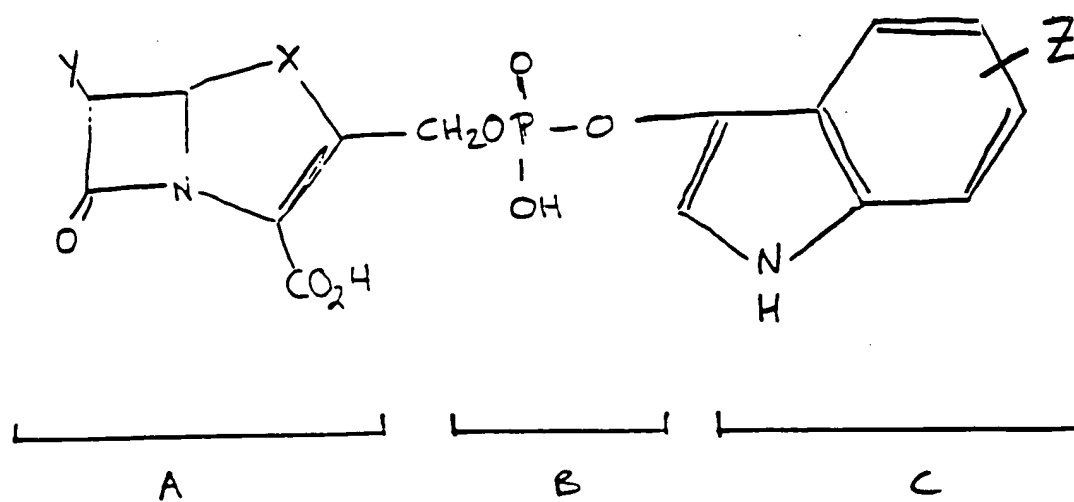


FIG. 28

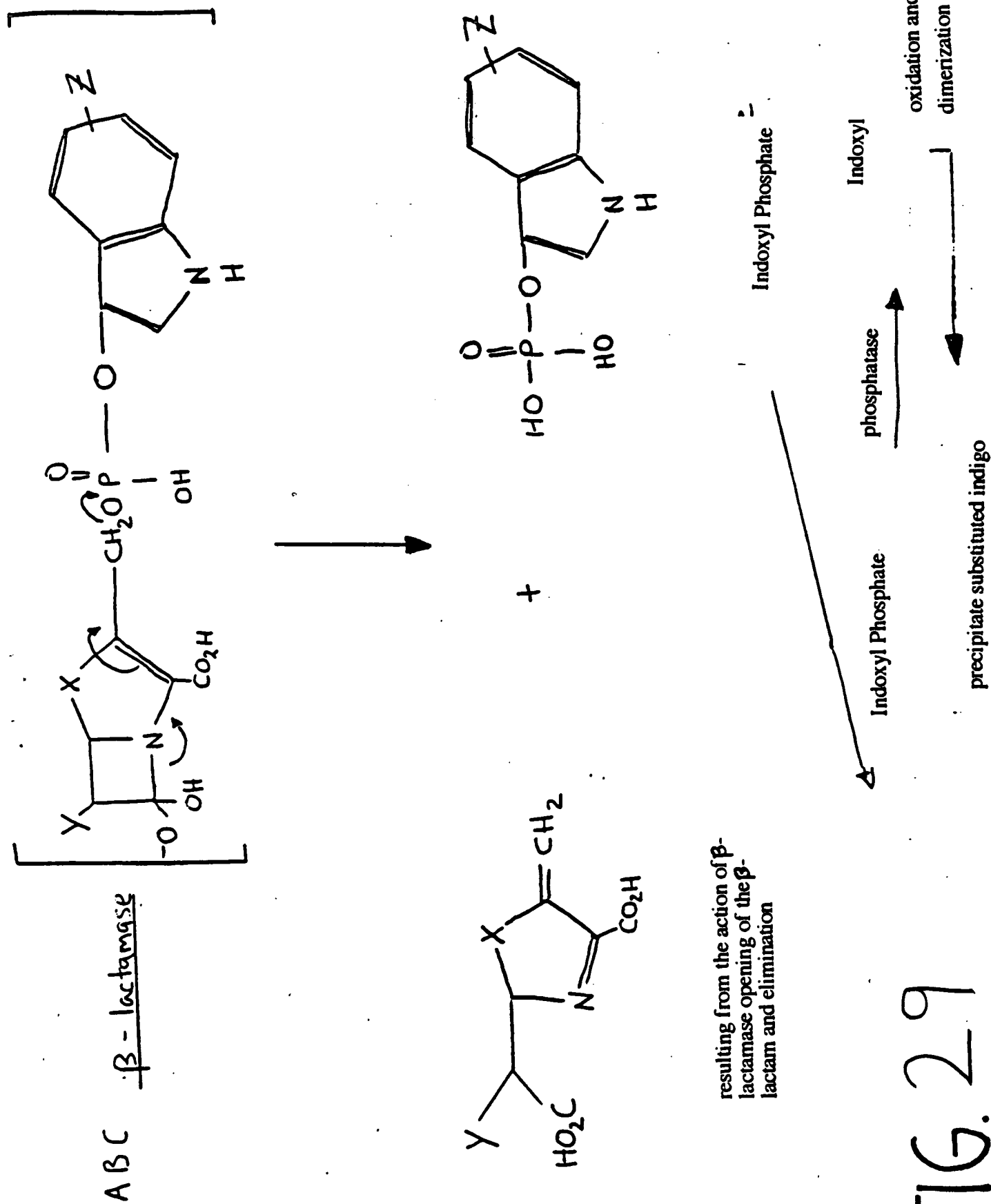
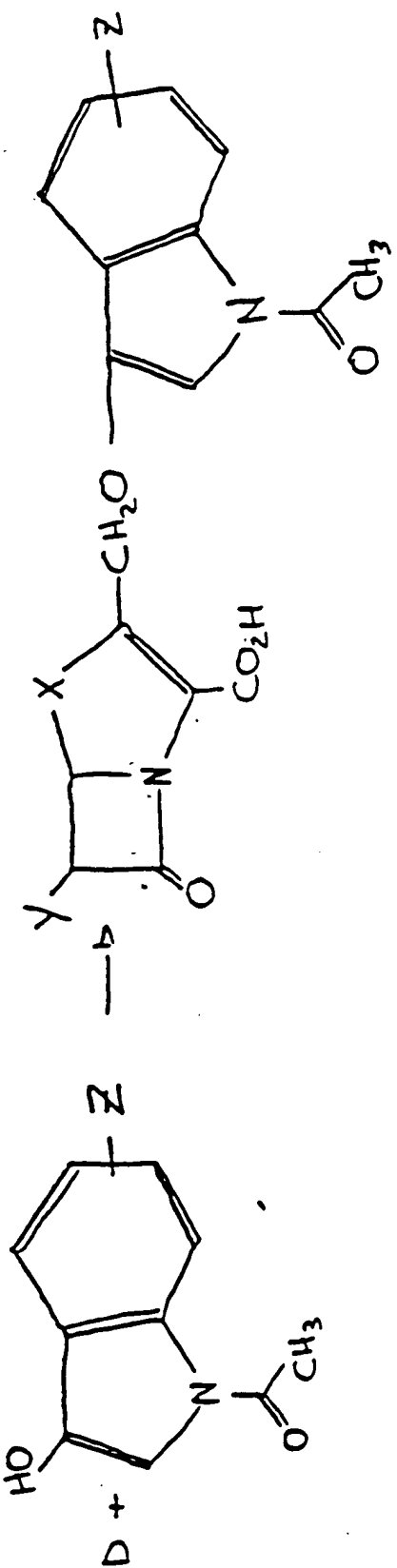
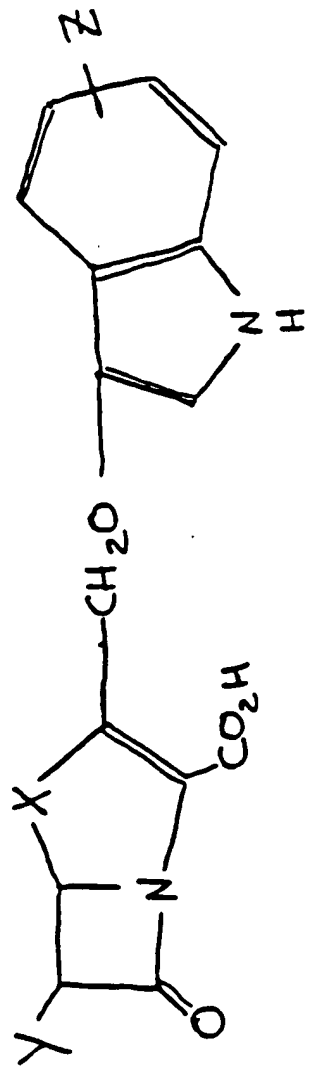


FIG. 29



$\xrightarrow{\text{NaHCO}_3 / \text{H}_2\text{O}}$

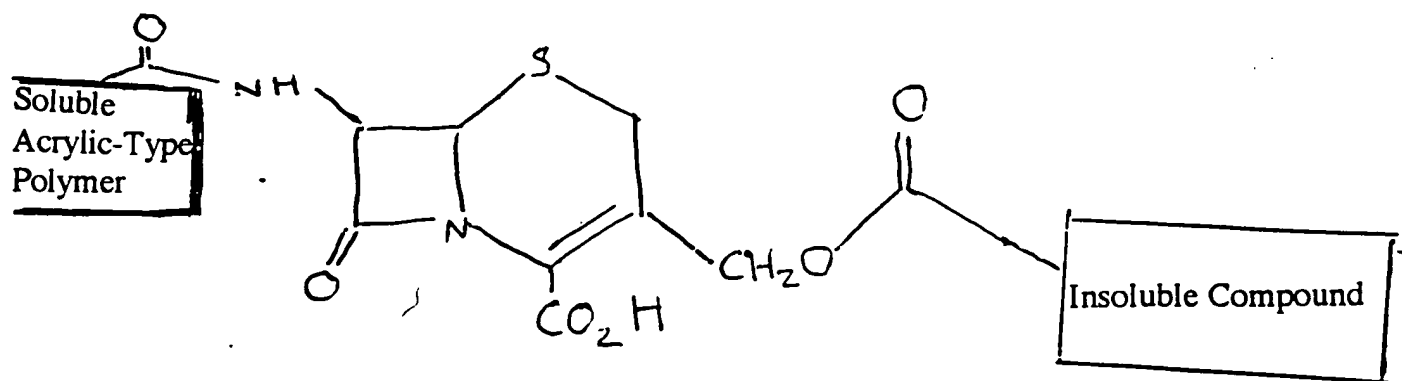


+ Indoxyl



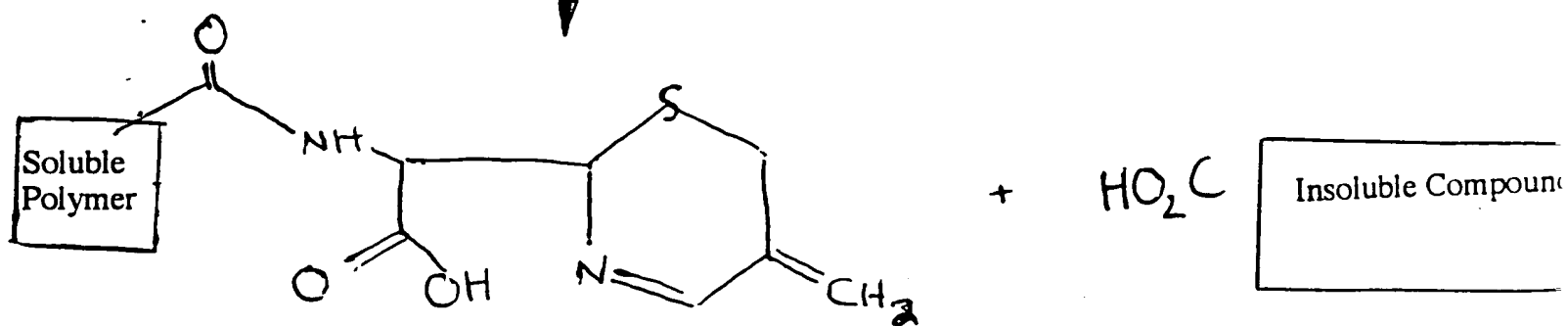
oxidation and  
dimerization

FIG. 30



7-aminocephalosporanic acid

Beta Lactamase



As shown the cephalosporin residue stays attached to the soluble polymer

FIG. 31

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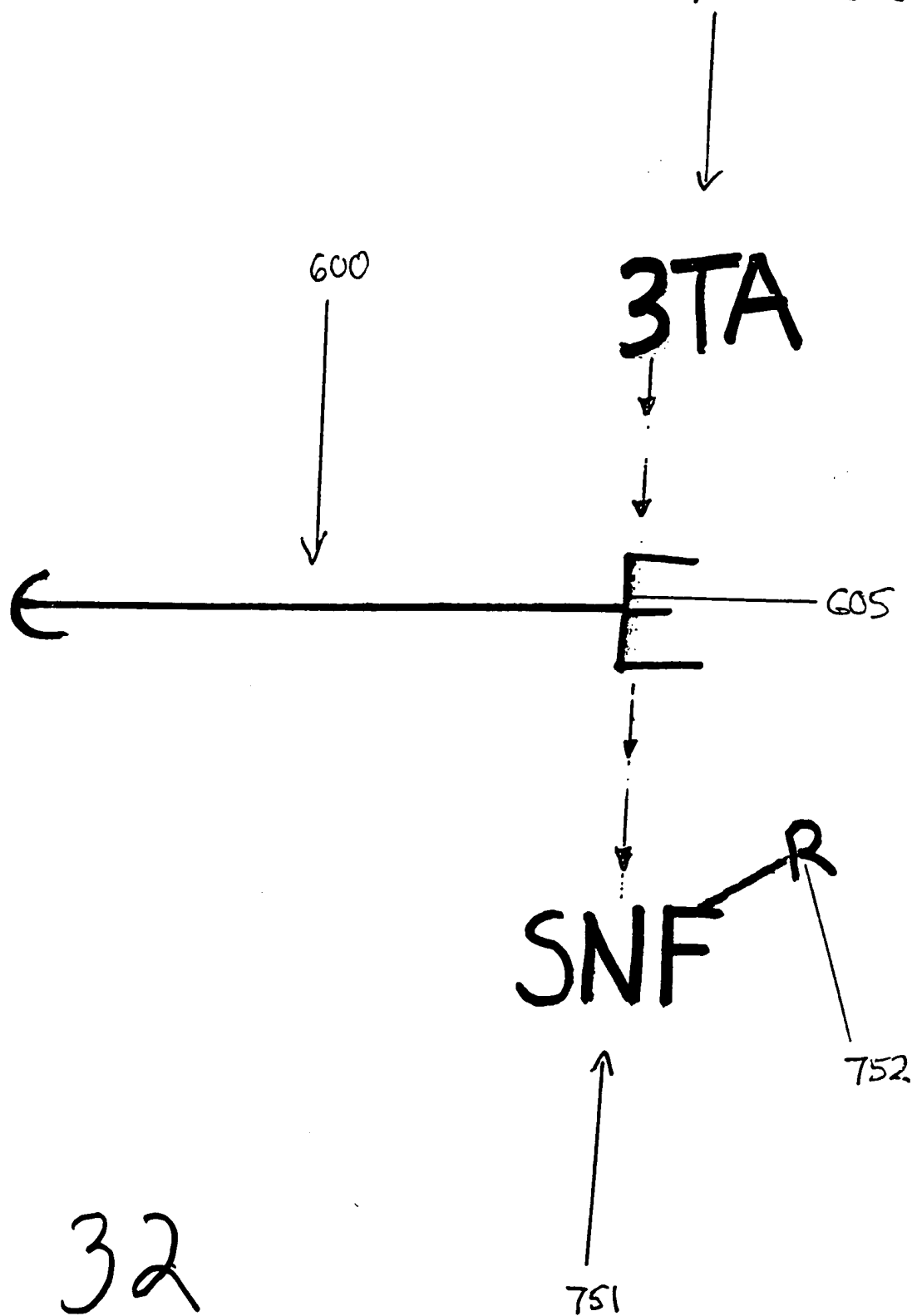
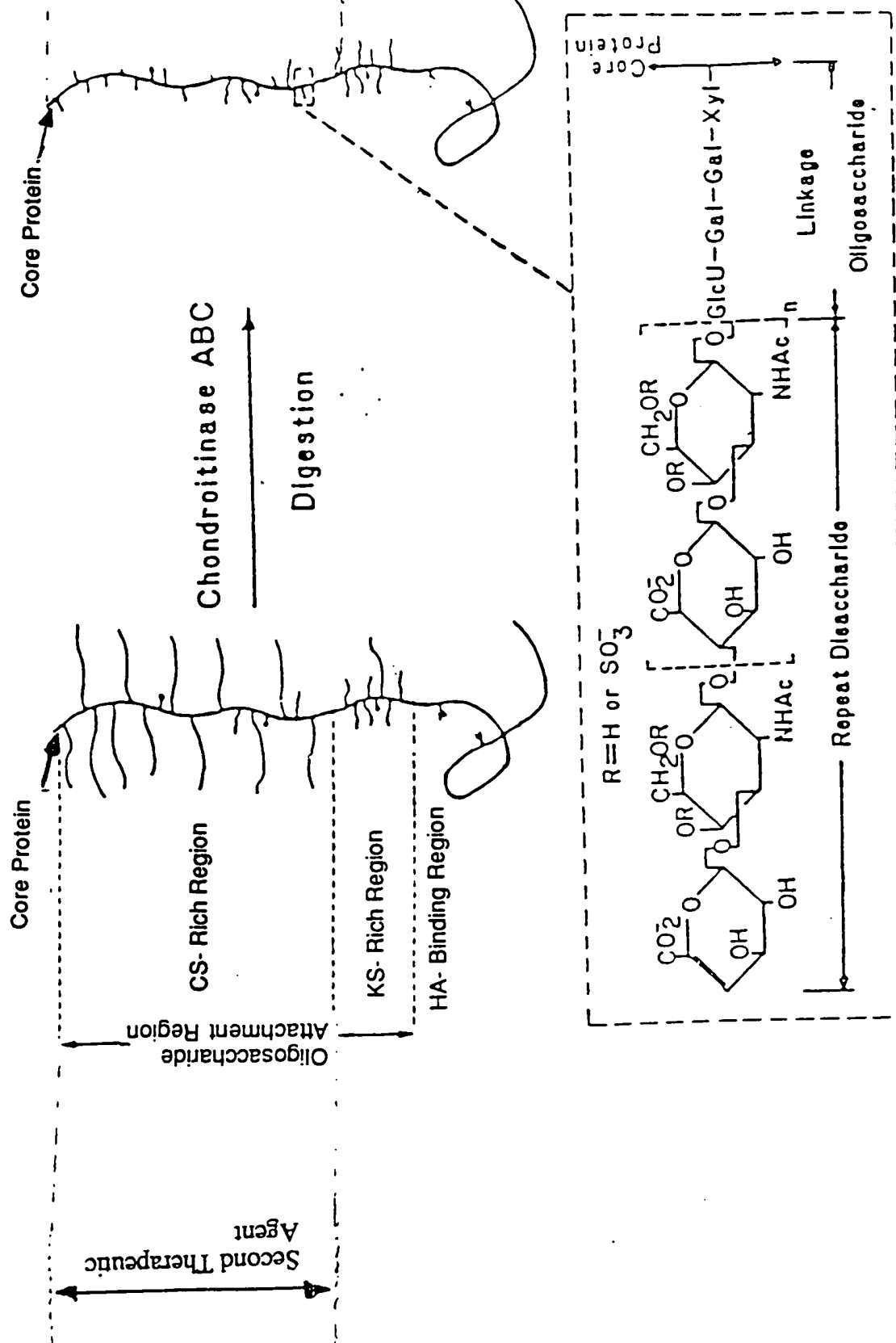


FIG. 32

# FIG. 33



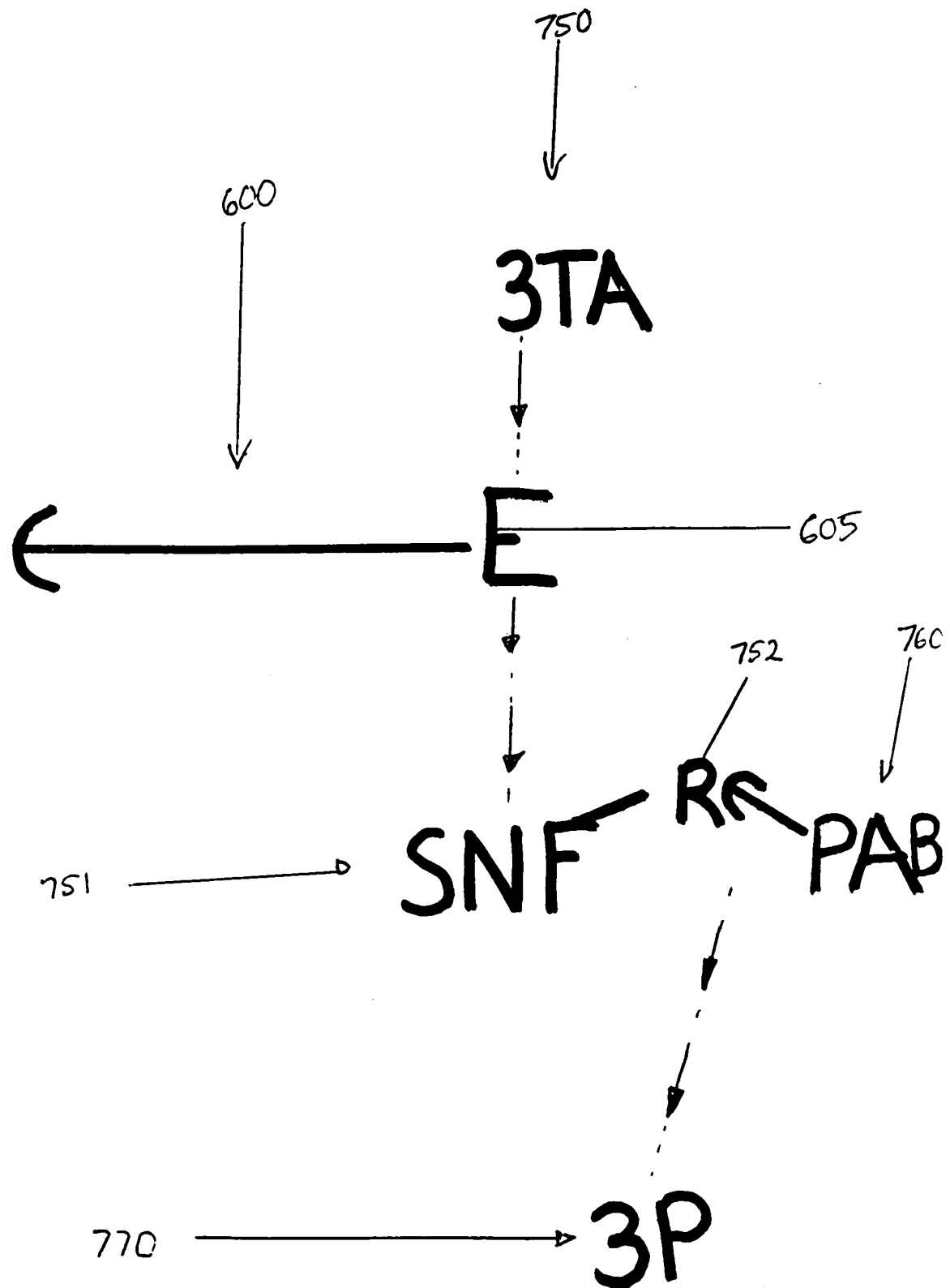


FIG. 34

FIG. 35

300

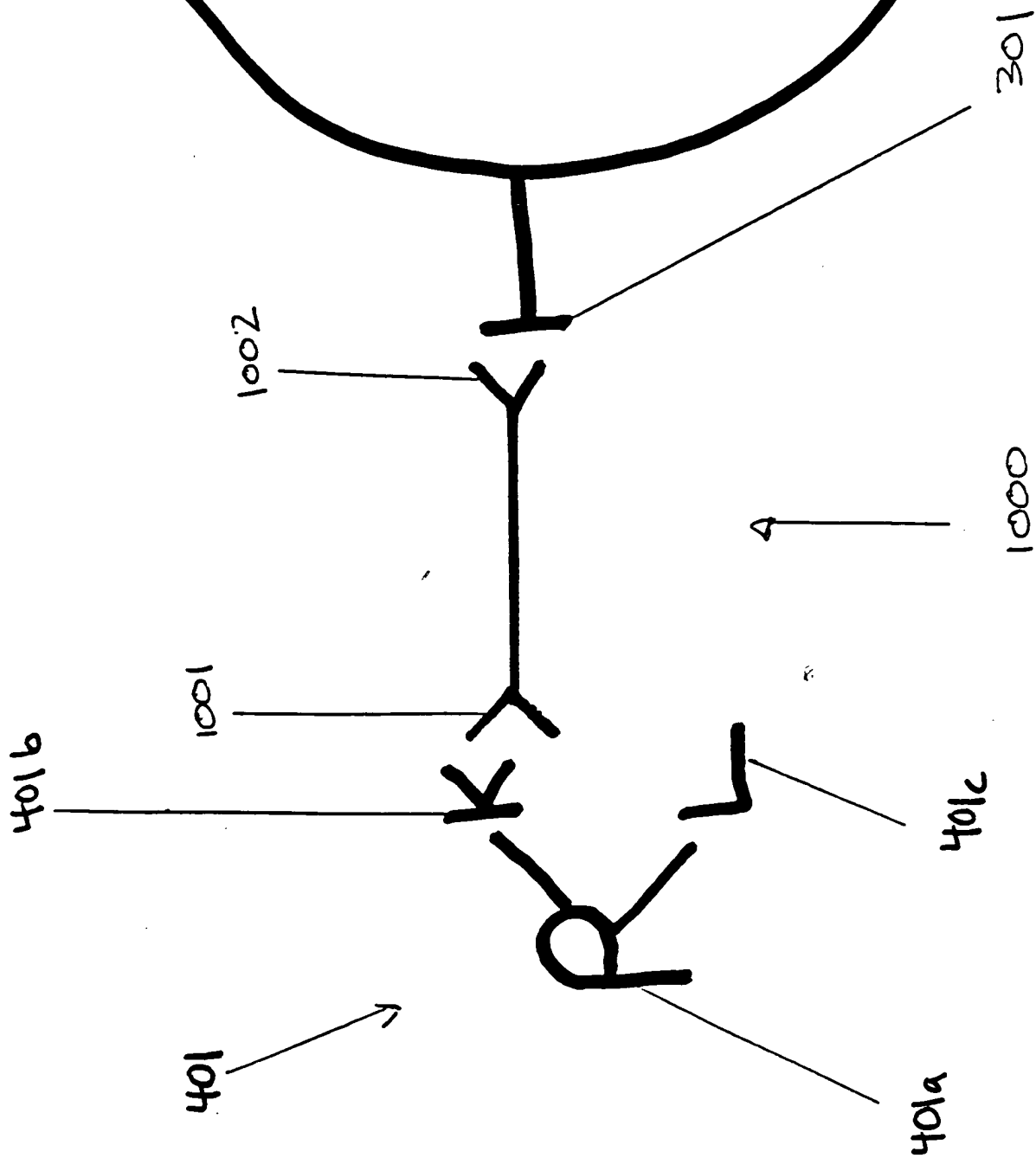
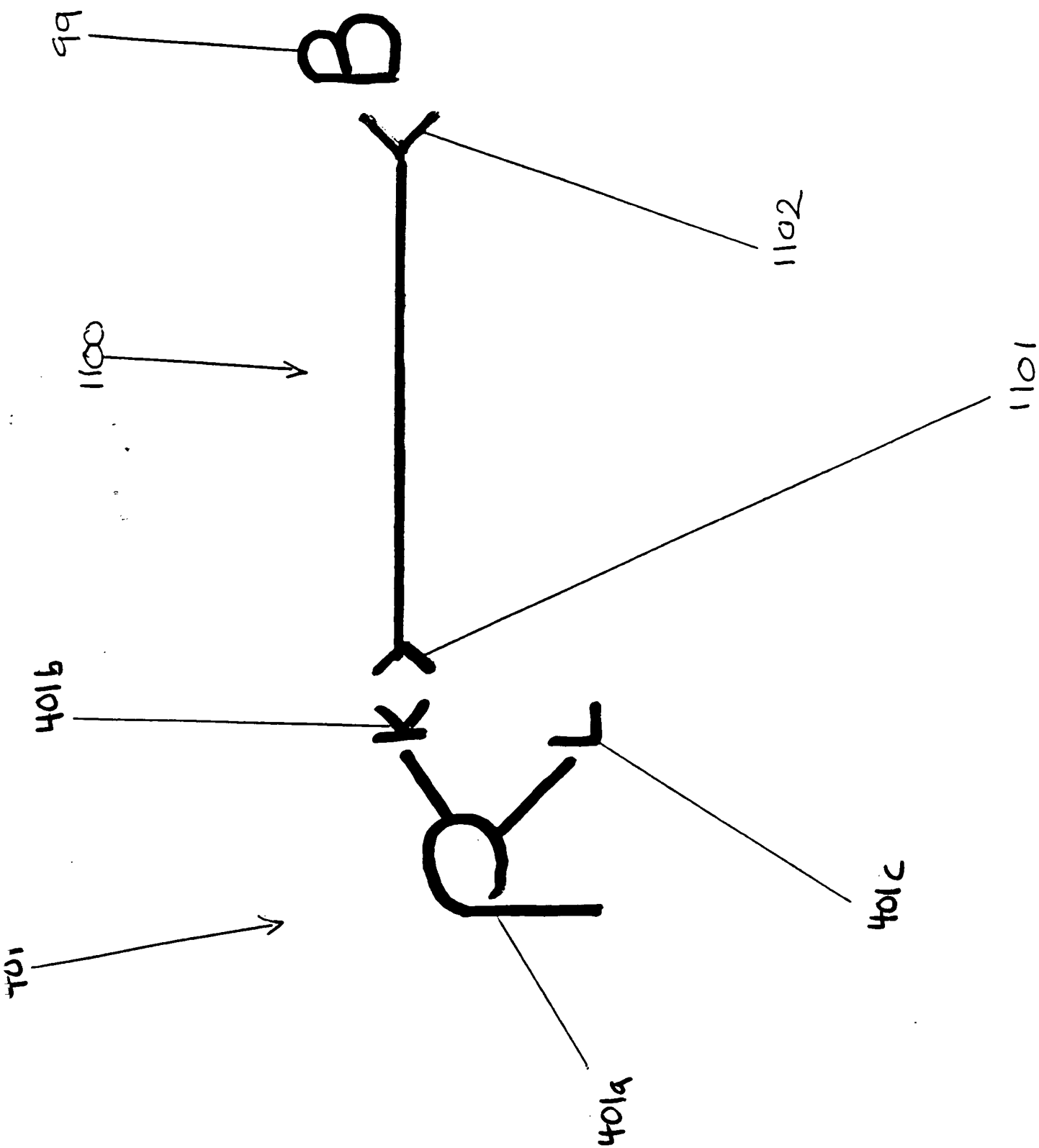


FIG. 36



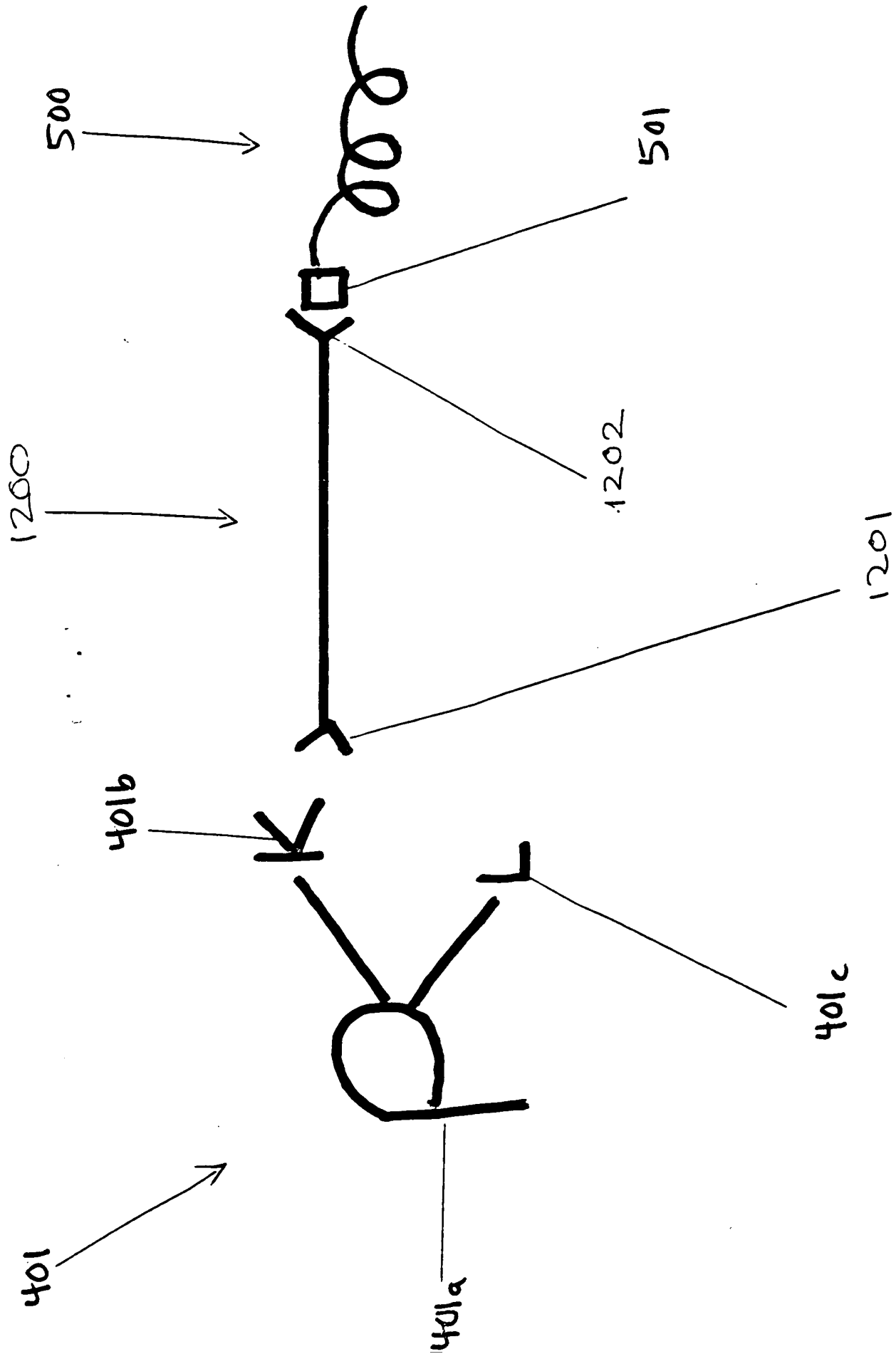
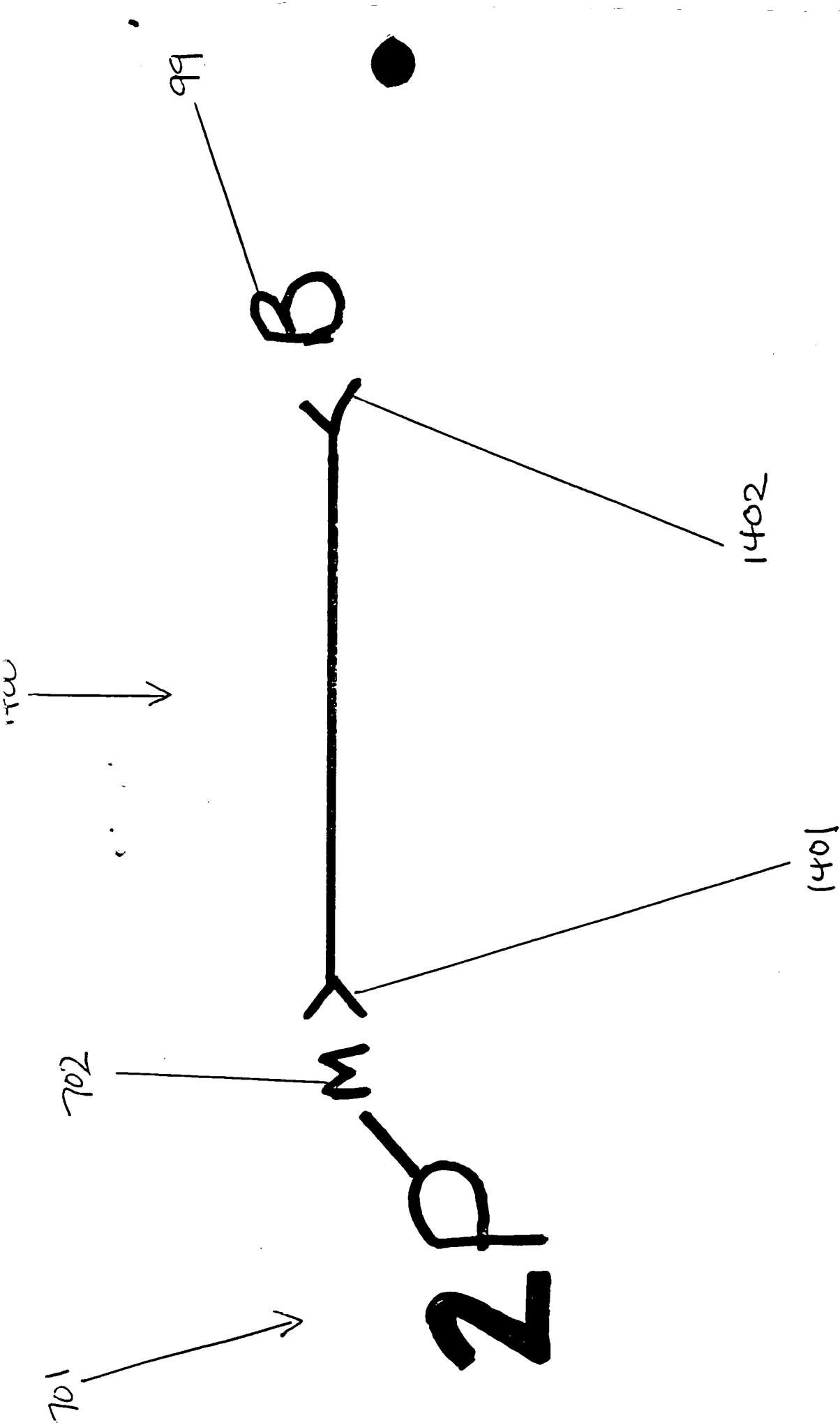


FIG. 37





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FIG. 39

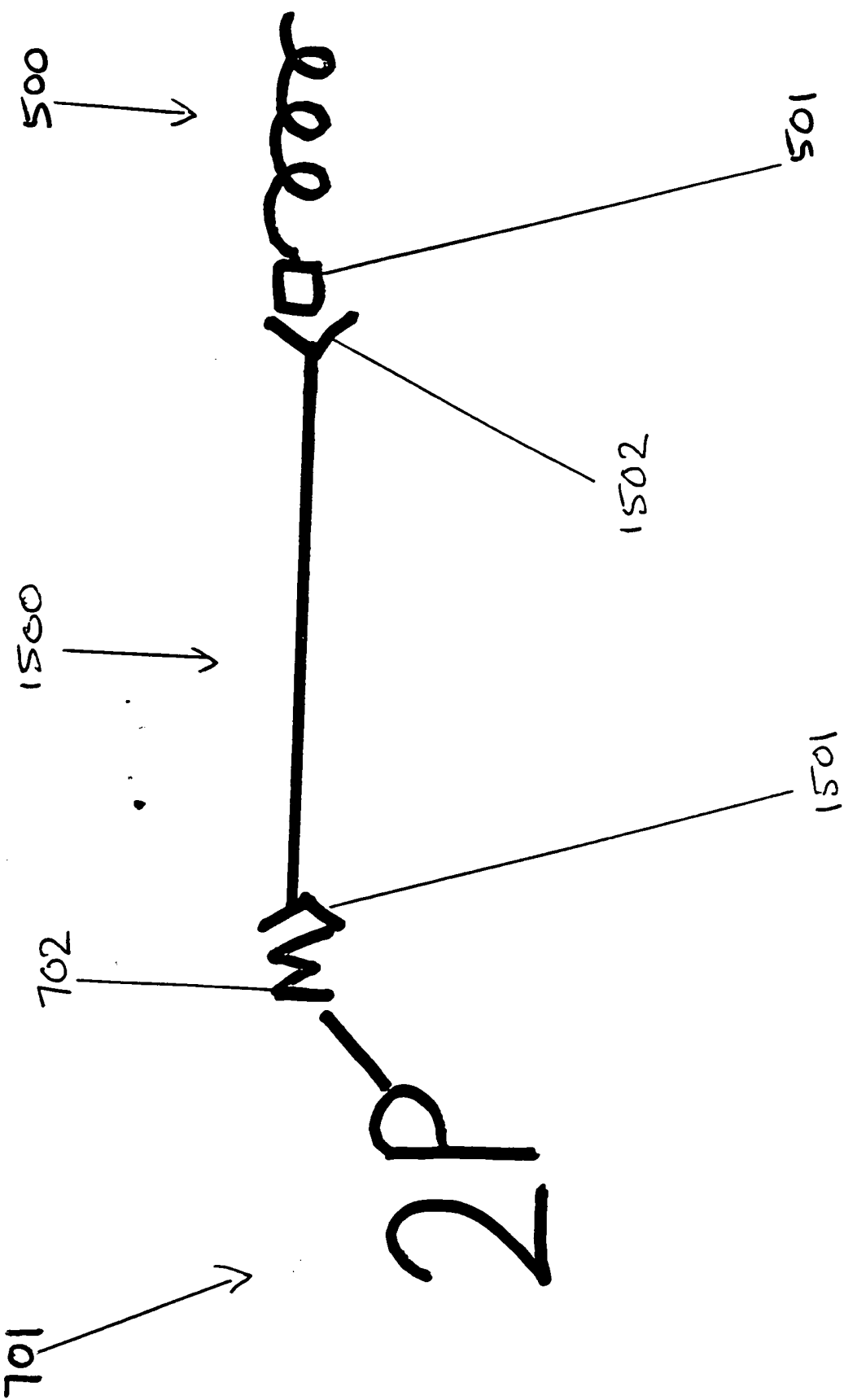


FIG. 40

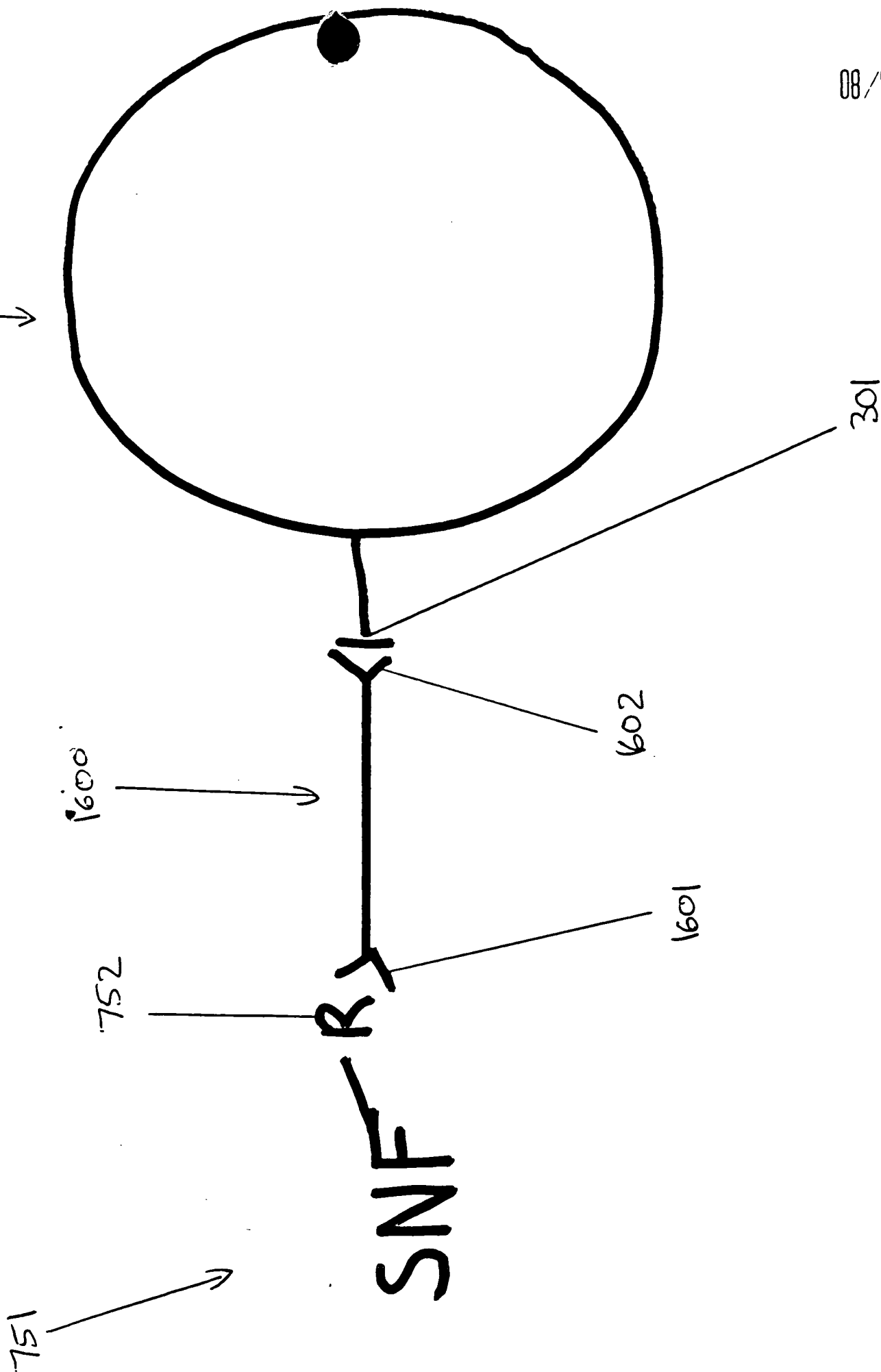


FIG. 41

FIG. 42

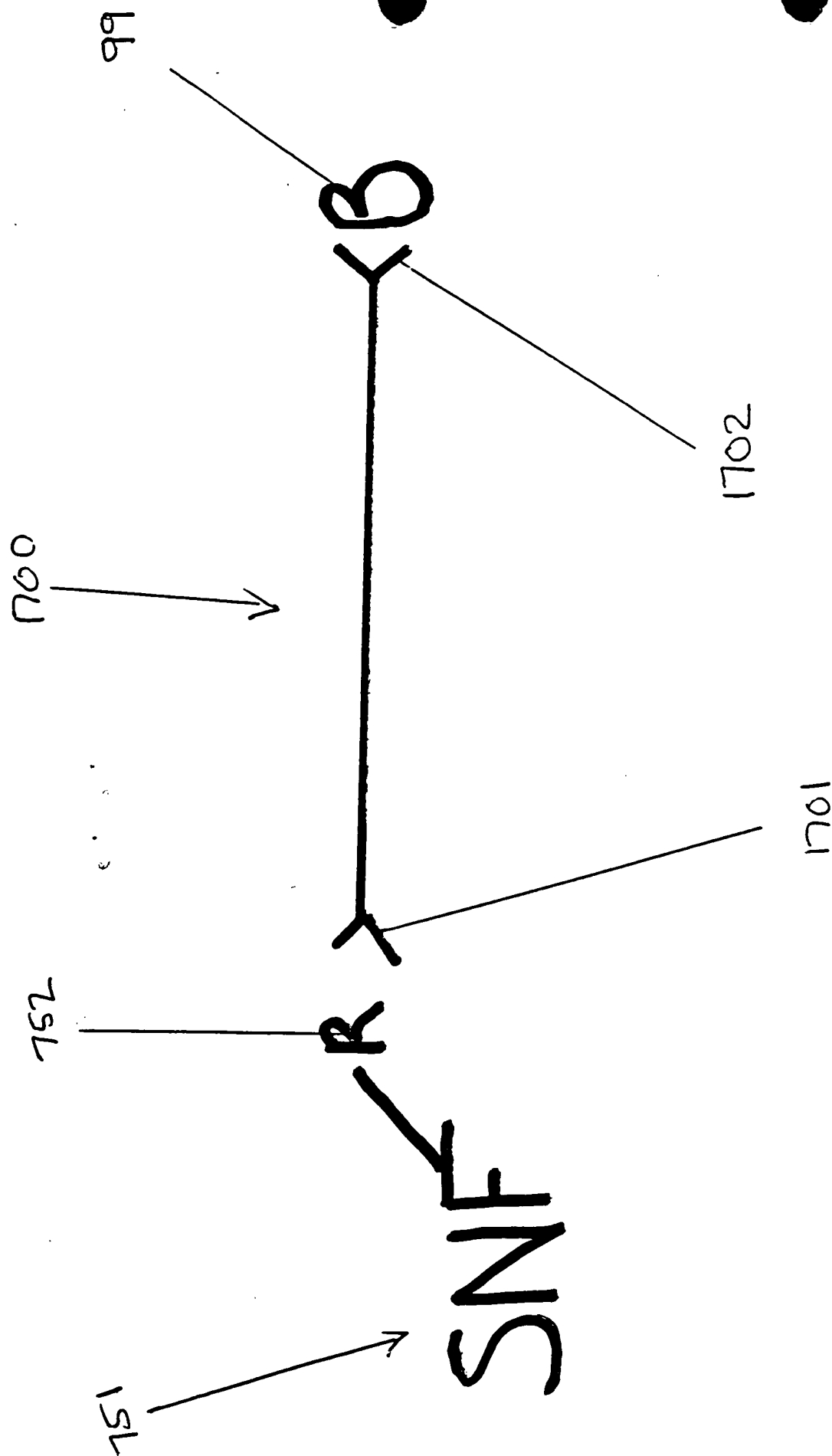


FIG. 43

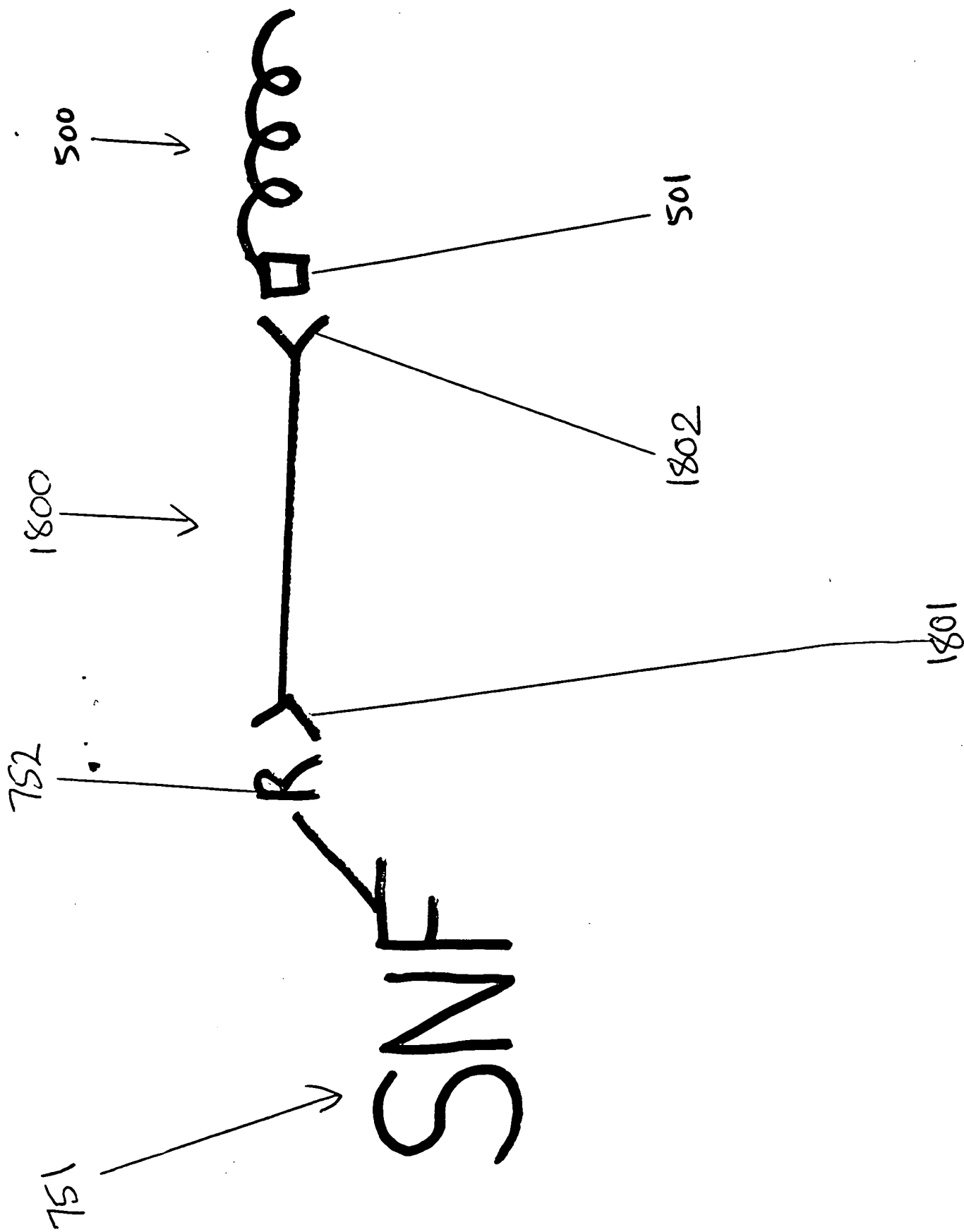


FIG. 44

